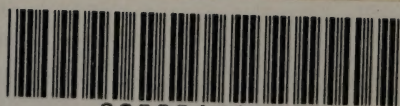




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ANNUAL SUMMARY

OF

BIRTHS, DEATHS, AND CAUSES OF DEATH

IN

LONDON,

AND OTHER GREAT TOWNS,

1888.

PUBLISHED BY THE AUTHORITY OF THE REGISTRAR GENERAL OF
BIRTHS, DEATHS, AND MARRIAGES IN ENGLAND.



LONDON:

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BY EYRE AND SPOTTISWOODE,

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HODGES, FIGGIS, & Co., 104, GRAFTON STREET, DUBLIN.

1889.

Price One Shilling and Sixpence.

REGISTRATION LONDON.*

AREA.—The Area of Registration London is 77,410 acres or 121 square miles, including 2718 acres of tidal water ; this is equal to 31,326 hectares, or 313 square kilometres. The length of the streets and roads is more than 1600 miles. The Area of London being 121 square miles is equal to a square of 11 miles to the side.

ELEVATION.—The population of London resides at a mean elevation of 39 feet (11·9 metres) above Trinity high-water mark ; the elevation varying from 11 feet (3·4 metres) below high-water mark in Plumstead Marshes, to 429 feet (131 metres) above high-water mark in Hampstead.

HOUSES.—At the Census in 1881 there were within this area 486,056 inhabited houses, containing an average of 7·9 persons to a house, closely corresponding with the proportions in 1861 and in 1871.

ANNUAL RATEABLE VALUE.—The Annual Rateable Value of Property within Registration London in 1888, as assessed in accordance with the Valuation (Metropolis) Act, 1869, was 30,882,947 $\frac{1}{2}$ † (For Annual Rateable Value of Greater London in 1881 and in 1887, see Table 7.)

DENSITY (1888).—142 persons to a hectare ; 57·3 persons to an acre ; 36,700 to a square mile. (In these calculations no account is taken of tidal water.)

ANNUAL RATE OF INCREASE OF POPULATION PER CENT. . $\left\{ \begin{array}{l} 1861-71. \quad . \quad 1\cdot50 \\ 1871-81. \quad . \quad 1\cdot61 \end{array} \right.$

1888.

| | | |
|---|---|--------------------|
| POPULATION | $\left\{ \begin{array}{l} \text{Males} \quad . \quad 2,017,169 \\ \text{Females} \quad . \quad 2,265,752 \end{array} \right.$ | PERSONS. 4,282,921 |
| (Estimated to the middle of the year.) | | |
| MARRIAGES | | 34,617 |
| PERSONS MARRIED | | 69,234 |
| ANNUAL RATE OF PERSONS MARRIED PER 1000 OF THE POPULATION | | 16·1 |
| BIRTHS | $\left\{ \begin{array}{l} \text{Males} \quad . \quad 66,629 \\ \text{Females} \quad . \quad 64,451 \end{array} \right.$ | PERSONS. 131,080 |
| ANNUAL RATE OF BIRTHS PER 1000 OF THE POPULATION | | 30·7 |
| DEATHS | $\left\{ \begin{array}{l} \text{Males} \quad . \quad 40,337 \\ \text{Females} \quad . \quad 38,511 \end{array} \right.$ | PERSONS. 78,848 |
| ANNUAL RATE OF MORTALITY PER 1000 | $\left\{ \begin{array}{l} \text{Males} \quad . \quad 20\cdot1 \\ \text{Females} \quad . \quad 17\cdot1 \end{array} \right.$ | PERSONS. 18·5 |
| EXCESS OF REGISTERED BIRTHS OVER DEATHS | | 52,232 |
| ESTIMATED INCREASE OF POPULATION | | 68,273 |

* Registration London is co-extensive with the District of the Metropolitan Board of Works, except that the hamlet of Penge is excluded from Registration London, although forming part of the District of the Metropolitan Board of Works.

† This information is derived from a return of the Gross and Rateable Value of Property in the Metropolis issued by the Metropolitan Board of Works.

ANNUAL SUMMARY.

LONDON, AND OTHER GREAT TOWNS, 1888.

*General Register Office, Somerset House,
1st March, 1889.*

The Great Towns.

THE twenty-eight great towns of England and Wales that have a place in the Weekly Returns contained an estimated population of 9,398,273 persons in the middle of 1888. The births recorded among this population in the course of the 52 weeks ending on December 29th, 1888, were 292,455, and in the proportion of 31·2 per 1000 of the population in a fully completed year, the average rate for the preceding six years having been 33·9. The deaths registered in the 52 weeks numbered 179,865, being in the proportion of 19·2 in a year per 1000 living, the mean rate in the six preceding years having been 21·3.

The death-rate varied greatly in the different towns, ranging from 16·1 in Brighton and 16·3 in Derby, to 23·9 in Blackburn and in Preston, and 26·1 in Manchester. Owing, however, to the great differences between one town and another, in regard to the age and sex distribution of their respective populations, these recorded death-rates require correction before they can be justly used for purposes of comparison; and factors were given in the Annual Summary for 1883 by which such correction can be made with approximate accuracy. Applying these factors we have the corrected rates, which are given in the second column of the following Table. In the third column the death-rate for all England and Wales has been taken as 1000, and the corrected rate in each town has been reduced to a figure comparable with that standard. That third column may be read as follows:—After making approximate correction for differences of age and sex distribution, the same number of living persons that gave 1000 deaths in England and Wales in 1888 gave 933 deaths in Brighton, 951 deaths in Derby, &c. &c. and 1634 deaths in Manchester.

RECORDED AND CORRECTED DEATH-RATES per 1000 in 28 Great Towns in 1888.

| Towns, in the order of their Corrected Death-rates. | | | | Recorded Death-rate. | Corrected Death-rate. | Comparative Mortality Figure. |
|---|---|---|---|-------------------------|--------------------------|-------------------------------------|
| Cols. | | | | 1. | 2. | 3. |
| ENGLAND AND WALES - | | | | 17·79 | 17·79 | 1000 |
| ENGLAND AND WALES } LESS THE 28 TOWNS - } | | | | 17·10 | 16·72 | 940 |
| 28 TOWNS - | | | | 19·40 | 20·46 | 1150 |
| Brighton - | - | - | - | 16·12 | 16·60 | 933 |
| Derby - | - | - | - | 16·27 | 16·92 | 951 |
| Hull - | - | - | - | 16·43 | 16·95 | 953 |
| Bristol - | - | - | - | 16·90 | 17·49 | 983 |
| Nottingham - | - | - | - | 17·28 | 18·32 | 1030 |
| Sunderland - | - | - | - | 18·07 | 18·81 | 1057 |
| Bradford - | - | - | - | 17·14 | 18·93 | 1064 |
| Birmingham - | - | - | - | 17·82 | 19·00 | 1068 |
| Birkenhead - | - | - | - | 17·80 | 19·04 | 1070 |
| Leicester - | - | - | - | 18·32 | 19·19 | 1079 |
| Norwich - | - | - | - | 20·17 | 19·29 | 1084 |
| Portsmouth - | - | - | - | 18·76 | 19·32 | 1086 |
| London - | - | - | - | 18·47 | 19·60 | 1102 |
| Huddersfield - | - | - | - | 18·52 | 20·34 | 1143 |
| Halifax - | - | - | - | 19·36 | 21·03 | 1182 |
| Wolverhampton - | - | - | - | 20·68 | 21·32 | 1198 |
| Newcastle - | - | - | - | 20·58 | 21·78 | 1224 |
| Leeds - | - | - | - | 20·60 | 22·02 | 1238 |
| Sheffield - | - | - | - | 20·54 | 22·09 | 1242 |
| Plymouth - | - | - | - | 22·34 | 22·12 | 1243 |
| Cardiff - | - | - | - | 20·46 | 22·21 | 1248 |
| Liverpool - | - | - | - | 20·34 | 22·32 | 1255 |
| Oldham - | - | - | - | 20·33 | 22·56 | 1268 |
| Salford - | - | - | - | 21·15 | 23·02 | 1294 |
| Bolton - | - | - | - | 21·61 | 23·68 | 1331 |
| Preston - | - | - | - | 23·91 | 25·97 | 1460 |
| Blackburn - | - | - | - | 23·91 | 26·06 | 1465 |
| Manchester - | - | - | - | 26·09 | 29·07 | 1634 |

Particulars of the registered mortality in the Great Towns are given in Tables 1 to 4. The total deaths from *small-pox* in their aggregate population were 604, or 0·06 per 1000 of the estimated inhabitants, the mean annual rate in the six preceding years having been 0·09; of these 604 deaths, no fewer than 408 occurred in Sheffield, where the rate was 1·27 per 1000. The mortality from *scarlet fever*, *measles*, *whooping-cough*, *diarrhæa*, and *fever* respectively was below the average. On the other hand, the mortality from *diphtheria* was in excess. The highest rates from these several diseases were as follow; from *measles*, 0·90 in Plymouth, 0·98 in Blackburn, and 1·01 in Cardiff; from *scarlet fever*, 0·48 in Oldham and in Bolton, 0·49 in Sheffield, and 1·45 in Blackburn; from *diphtheria*, 0·30 in London, 0·32 in Norwich, 0·34 in Manchester, and 0·49 in Bristol; from *whooping-cough* 0·73 in Norwich, 0·84 in Manchester, and 0·98 in Salford; from *fever* 0·36 in Birkenhead and in Blackburn, 0·40 in Nottingham, and 0·43 in Salford; from *diarrhæa*, 1·00 in Leicester, 1·03 in Bolton, and 1·54 in Preston;

and from *small-pox*, as already stated, 1·27 in Sheffield. The highest rates from these seven causes in the aggregate were 3·06 in Preston, 3·14 in Manchester, 3·53 in Salford, 3·59 in Sheffield, and 4·13 in Blackburn, while the lowest were 1·15 in Hull, 1·18 in Halifax, and 1·28 in Bristol, the rate in the aggregate twenty-eight towns being 2·41.

In fifty other Town Districts which, though not so large as the twenty-eight Great Towns, are yet of considerable size, and are estimated to contain in the aggregate a population of nearly 3 millions, the death-rate in the year was 18·4 per 1000.

The infantile death-rate, or proportion of deaths of infants in the first year of life to the registered births, was 137 to 1000 births in England and Wales, 148 in the fifty Large Town Districts, and 154 in the twenty-eight Great Towns. The proportion, however, reached 188 in Preston, 190 in Blackburn, and 200 in Leicester.

The following Table shows the relative mortality from each of the above-mentioned zymotic diseases in England and Wales in the twenty-eight great towns, in fifty other town districts, and in the remainder of the country :—

ANNUAL DEATH-RATE per 1,000 from ALL CAUSES, and from several ZYMOTIC DISEASES, during the year 1888.

| — | All Causes. | Principal Zymotic Diseases, (Cols.3-9) | Small-pox. | Measles. | Scarlet Fever. | Diphtheria. | Whooping-cough. | Fever. | Diarrhoea. |
|--|-------------|--|------------|----------|----------------|-------------|-----------------|--------|------------|
| Cols. | 1. | 2. | 3. | 4. | 5. | 6. | 7. | 8. | 9. |
| England and Wales - | 17·8 | 1·77 | 0·04 | 0·33 | 0·22 | 0·17 | 0·40 | 0·18 | 0·43 |
| 28 Great Towns - | 19·2 | 2·41 | 0·06 | 0·47 | 0·29 | 0·21 | 0·53 | 0·20 | 0·60 |
| 50 Other Town Districts | 18·4 | 1·93 | 0·04 | 0·43 | 0·22 | 0·12 | 0·41 | 0·21 | 0·50 |
| England and Wales } less the 28 Towns - } | 16·9 | 1·37 | 0·02 | 0·24 | 0·18 | 0·16 | 0·30 | 0·16 | 0·31 |

London.

The year 1888, as has been the case for several immediately previous years, was a year of remarkably low rates; the marriage-rate and the death-rate being each the lowest on record, and the birth-rate the lowest since 1841.

MARRIAGES.

The marriages registered in London numbered 34,617, giving a proportion of 16·1 persons married to 1000 of the population. This is the lowest marriage-rate as yet recorded in London. The next lowest rates were, moreover, those in the five immediately preceding years 1883-7, when they were successively 17·9, 17·6, 16·9, 16·6, and 16·3 per 1000.

BIRTHS.

The births registered in London in 1888 (52 weeks) numbered 131,080, and were in the proportion of 30·7 to 1000 inhabitants. This is the lowest birth-rate recorded in London since 1841, when the rate was 30·4. In 1876 the rate

was 35·9, but from that date it fell continuously year after year. The excess of births over deaths, or natural increment, was 52,232 in 1888, having averaged 51,524 in the three immediately preceding years.

DEATHS.

The deaths registered in the year (52 weeks) numbered 78,848, and corresponded to an annual rate of 18·5 per 1000. This is far the lowest death-rate as yet recorded in London; moreover, the three next lowest are those in the three immediately preceding years 1885-6-7, when the figures were successively 19·8, 19·9, and 19·6.

The following Table shows in a summary form the amount of life saved and the amount lost in the year, compared with the mean mortality in the preceding decennium, under each of the more important headings in the list of causes.

DIMINUTION OR EXCESS OF DEATHS in 1888, compared with Annual Deaths in 1878-87,
corrected for increase of Population.

| CAUSE OF DEATH. | Diminution in 1888. | Excess in 1888. |
|--|------------------------|--------------------|
| Small-pox - - - - - | 857 | — |
| Measles - - - - - | 94 | — |
| Scarlet Fever - - - - - | 742 | — |
| Typhus - - - - - | 54 | — |
| Whooping-cough - - - - - | 327 | — |
| Diphtheria - - - - - | — | 450 |
| Simple and Ill-defined Fever - - - - - | 84 | — |
| Enteric Fever - - - - - | 213 | — |
| Diarrhœal Diseases - - - - - | 1,249 | — |
| Cancer - - - - - | — | 180 |
| Phthisis and Tubercular Diseases - - - - - | 2,433 | — |
| Premature Birth - - - - - | — | 85 |
| Diseases of Nervous System - - - - - | 821 | — |
| Diseases of Circulatory System - - - - - | — | 478 |
| Diseases of Respiratory System (including Croup). | 2,554 | — |
| Diseases of Urinary System - - - - - | — | 143 |
| Childbirth and Puerperal Fever - - - - - | 95 | — |
| Accident - - - - - | 217 | — |
| Murder, Manslaughter - - - - - | 9 | — |
| Suicide - - - - - | — | 10 |
| All other Causes - - - - - | 2,182 | — |
| | 11,931 | 1,346 |
| Balance of Diminution and Excess - - - - - | 10,585 | — |

It will be noted that there was a net gain in the year of 10,585 lives; that is to say, had the death-rate been equal to the mean rate in the ten preceding years, 10,585 more persons would have died in London in the year 1888 than was actually the case. This saving of life was shared very unequally by the different causes, and there were six in the table from which the mortality was in excess, namely, Diphtheria, Cancer, Premature Birth, Diseases of the Circulatory System, Diseases of the Urinary System, and Suicide. Moreover, these several excesses appear not to be due to merely temporary influences, but to indicate the operation of some permanent causes; for if the corresponding Tables in the five last Annual Summaries be examined, it will be found that in each of the previous five years 1883-7 there were similar excesses under these six headings, excepting, in the case of suicide, the single year 1885.

Similarly among the headings under which there is shown in the Table to have been a diminished mortality in 1888, there are ten under which there was also a diminution in each of the preceding five years, namely, Scarlet Fever, Typhus, Simple and Ill-Defined Fever, Enteric Fever, Diseases of the Nervous System, Diseases of the Respiratory System, Accident, Murder, and the aggregate of other causes than those specially enumerated in the Table. This persistency of decrease affords good grounds, as has been pointed out in previous Annual Summaries, for believing that the diminution under, at any rate, some of these headings will be permanently maintained.

The deaths from *small-pox* registered in the year were only 9, which had also been the number in the preceding year 1887. In 1886 the number was 24, and these three figures are the lowest on record since civil registration began.

The deaths from *measles* numbered 2,401, and were in the proportion of 0·56 to 1000 inhabitants; the average annual rate in the preceding decennium having been 0·58. But though the rate for the whole year was thus considerably below the average, there was in the latter part of the year a very serious outbreak. This began about the first week in October, after which the mortality rose very rapidly to a maximum in the middle of December, when as many as 184 deaths were registered in a single week. The outbreak then began to subside, the mortality falling as rapidly as it had previously risen, but even at the present date (1st March 1889) the mortality has not fallen to the average level.

The deaths from *scarlet-fever* numbered 1,209, and were in the proportion of 0·28 to 1000 inhabitants, the average annual rate in the preceding decennium having been 0·46. In the first quarter of the year the mortality from this disease was slightly above the decennial average, the serious outbreak which marked the latter months of 1887 not having completely subsided until the end of March 1888, but in each week of the remaining nine months it was very considerably below it. Had the mortality been equal to the decennial average, there would have been 742 more deaths from this disease in 1888 than were actually registered.

The increasing tendency on the part of Londoners to make use of the public hospitals in cases of scarlet-fever has been noticed in several previous Annual Summaries; and the year 1888 shows a further advance. This is shown by the increasing proportion borne by the hospital deaths to the deaths outside those institutions. In 1878 the scarlet-fever deaths in the London Fever and Metropolitan Asylum Hospitals were only 7 per cent. of the total mortality from that disease in London; in 1879-82

they were from 9 to 11 per cent. ; in 1883 the percentage rose to 13·2 ; in 1884 to 17·6 ; in 1885 to 20·2 ; in 1886 to 22·7 ; in 1887 to 36·6 ; while finally in 1888 it reached 43·4.

Assuming the case-mortality in these hospitals to represent the case-mortality in the whole of London, the total number of cases of scarlet fever of equal severity to those admitted into hospital may be estimated to have been as follows in each of the past nine years :—

| | | | | | |
|------|---|---------------|------|---|--------------|
| 1880 | - | 28,039 cases. | 1885 | - | 8,886 cases. |
| 1881 | - | 21,376 „ | 1886 | - | 8,185 „ |
| 1882 | - | 23,194 „ | 1887 | - | 15,626 „ |
| 1883 | - | 18,748 „ | 1888 | - | 13,056 „ |
| 1884 | - | 13,912 „ | | | |

The deaths from *typhus* and from *ill-defined forms of continued fever* were respectively 10 and 33, and in each case fewer than in any previous year ; but the deaths from *enteric fever* were 677 and more numerous than in any of the three preceding years, in which they had been successively 597, 618, and 612. Notwithstanding, however, this not inconsiderable increase, they were still far below the decennial average ; the average enteric fever rate having been 0·21 per 1000 in 1878–87, and only 0·16 in 1888. The excess of mortality over that of the immediately preceding years appears to have occurred in the first two quarters of the year, and mainly in the districts of Kensington, St. Pancras, Islington, Poplar, and Bermondsey. In these five districts, after excluding cases admitted from outside London and distributing hospital cases, the deaths from enteric fever were 214 in 1888, having been only 109 in 1887.

The deaths ascribed to *diphtheria* were 1301, and in the proportion of 0·30 per 1000 inhabitants. This was not only greatly in excess of the decennial average, which was only 0·20, but higher than in any single year in the period in which diphtheria has been recognised as a distinct heading (Table 12).

The mortality from this disease has apparently been increasing in London since 1877, having risen from 0·09 per 1000 in that year to 0·30 in 1888. The rise up to 1887 was gradual, but in 1888 there was a sudden bound, the deaths increasing from 953 to 1301, and the rate from 0·23 to 0·30, a rise of 30 per cent. in a single year. This is a matter which clearly calls for the serious attention of sanitary officials. The increase in 1888, as compared with the preceding year, was shared by a great many districts, but was especially marked in Paddington, Kensington, St. George Hanover Square, and Westminster among the Western districts, in Hackney among the Northern Districts, in Bethnal Green, Whitechapel, and Stepney among Eastern Districts, and in St. George Southwark and in Wandsworth and Battersea among Southern Districts. In these several districts, after distribution of hospital cases and exclusion of cases from outside, the deaths in 1887 and 1888 respectively were as follows :

| — | 1887. | 1888. | — | 1887. | 1888. |
|-------------------------|-------|-------|--------------------------|-------|-------|
| Paddington - | 29 | 76 | Bethnal Green - - | 27 | 52 |
| Kensington - - - | 40 | 91 | Whitechapel - - - | 6 | 24 |
| St. Geo. Hanover Square | 13 | 46 | Stepney - - - | 14 | 25 |
| Westminster - - | 25 | 37 | St. George Southwark - | 12 | 23 |
| Hackney - - - | 40 | 76 | Wandsworth and Battersea | 51 | 92 |

The period of the year when the mortality from this disease was at its highest was, as usual, the fourth quarter.

At the beginning of 1888 an outbreak of *whooping-cough*, which had commenced in the latter part of 1887, was still in progress, and the weekly mortality remained far above the average until the middle of March; it then, after some irregular fluctuations, fell below the average, and remained so throughout the rest of the year. The deaths altogether numbered 2,987, giving a rate of 0·70 per 1000 living, the decennial average having been 0·78; showing that the effects of the severe outbreak in the first quarter were more than counterbalanced in the remaining nine months.

The deaths from *diarrhœa* were 2,176, giving a rate of 0·52 per 1000, which, with the exception of 1879, when the rate was 0·51, is the lowest rate recorded since 1845. This low mortality was due to the unusually cold and wet weather that prevailed during July and August, the mean temperature in these two months having been 2°·8 Fahr. below the average in 117 years (Table 23). The effect of a hot or cold summer upon the *diarrhœa* mortality is well shown by comparing the years 1887 and 1888, for neither the number nor the sanitary condition of the population can have differed materially in these two consecutive years, which stood, however, widely apart in the matter of temperature. In 1887 the mean temperature of the third quarter was 61·0° Fahr., and the deaths in that quarter from *diarrhœa* were 3,200; while in 1888 the mean temperature was 57·6°, and the *diarrhœa* deaths only 1,439.

The deaths from all the chief zymotic diseases together show a net balance of no fewer than 3,170 lives saved, as compared with the average in the ten preceding years.

The deaths from puerperal causes numbered 444, and show in the Table (p. vi.) a diminution of 95 as compared with the average. Some part of this diminution is attributable to the diminished birth-rate, but when due allowance has been made for this, there still remains some improvement; for the proportion of puerperal deaths to births was 3·73 per 1000 in 1878-87, but was only 3·39 in 1888.

Again, it is necessary to call attention to the continued excess of mortality under the heading *Premature Birth*. In 1871-80 the deaths ascribed to this cause were in the ratio of 10·3 to 1000 registered births; since then the proportion has risen gradually, until in 1886 it was 14·4, and in 1887 reached 14·8, at which high point it remained in 1888.

The deaths ascribed to accidental causes in 1888 numbered 2,506, and after due correction for growth of population, were 217, or 8·0 per cent., below the annual average in the ten preceding years.

Among these accidental deaths there were, according to Captain Shaw's Report, 48 caused by the 1888 fires to which the Fire Brigade were summoned; while there were 237 caused by horses and conveyances in the street.

The following table shows the number of deaths caused by horses and by different kinds of vehicles :—

| Year. | Description of Vehicle, &c. | | | | | | | | TOTAL. |
|-------|-----------------------------|-----------|----------|-----------|------|-------|-------------------|----------------------------|--------|
| | Horse, &c. | Carriage. | Omnibus. | Tram-car. | Cab. | Cart. | Van, wagon, dray. | Others, and not described. | |
| 1873 | 13 | 10 | 12 | 17 | 28 | 56 | 79 | 2 | 217 |
| 1874 | 28 | 11 | 17 | 14 | 33 | 36 | 67 | 5 | 211 |
| 1875 | 11 | 15 | 18 | 9 | 39 | 55 | 82 | 2 | 231 |
| 1876 | 13 | 4 | 17 | 12 | 24 | 56 | 84 | 7 | 217 |
| 1877 | 16 | 13 | 13 | 4 | 26 | 56 | 97 | 2 | 227 |
| 1878 | 17 | 12 | 14 | 10 | 34 | 63 | 84 | 3 | 237 |
| 1879 | 16 | 13 | 17 | 18 | 36 | 57 | 74 | 5 | 236 |
| 1880 | 12 | 11 | 20 | 17 | 39 | 43 | 76 | 2 | 220 |
| 1881 | 13 | 14 | 21 | 23 | 31 | 58 | 88 | 4 | 252 |
| 1882 | 12 | 15 | 19 | 23 | 37 | 60 | 100 | 5 | 271 |
| 1883 | 6 | 12 | 16 | 25 | 57 | 45 | 57 | 4 | 222 |
| 1884 | 12 | 11 | 33 | 18 | 57 | 51 | 74 | 9 | 265 |
| 1885 | 12 | 20 | 14 | 11 | 55 | 55 | 89 | 10 | 266 |
| 1886 | 10 | 7 | 21 | 9 | 39 | 49 | 111 | 5 | 251 |
| 1887 | 13 | 7 | 18 | 19 | 51 | 49 | 85 | 9 | 251 |
| 1888 | 5 | 15 | 25 | 9 | 41 | 47 | 91 | 4 | 237 |

Deaths in Workhouses, Hospitals, and Public Lunatic Asylums.—Of the 78,848 deaths registered in London in 1888, 17,728 or 22·5 per cent. occurred in public institutions. If to these be added the 1130 deaths of London residents that occurred in the County and Metropolitan Lunatic and Imbecile Asylums outside the registration area of London, the proportion of deaths in the institutions to the whole mortality was 23·6 per cent., having been 21·9 in the preceding year 1887. This percentage of 23·6 was made up of 12·0 in workhouses, 0·9 in Metropolitan Asylum Hospitals, 8·9 in other hospitals, and 1·8 in lunatic or imbecile asylums. Thus, about 1 in 8 of the deceased persons died in a workhouse, and 1 in 117 in a Metropolitan Asylum Hospital; while 1 in 11 died in some other hospital, and 1 in 54 in an asylum for lunatics or imbeciles.

| — | 1878. | 1879. | 1880. | 1881. | 1882. | 1883. | 1884. | 1885. | 1886. | 1887. | 1888. |
|---|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|
| Deaths in Public Institutions | 15,491 | 16,013 | 14,732 | 16,932 | 15,805 | 16,720 | 17,477 | 17,678 | 17,125 | 17,253 | 17,728 |
| Workhouses* | 8,586 | 9,484 | 8,575 | 9,005 | 8,824 | 9,608 | 9,208 | 9,512 | 9,708 | 9,285 | 9,603 |
| Metropolitan Asylum Board Hospitals (in or out of London) | 1,130 | 621 | 609 | 1,772 | 653 | 473 | 1,333 | 1,248 | 248 | 624 | 683 |
| Other Hospitals | 5,442 | 5,569 | 5,280 | 5,862 | 6,053 | 6,358 | 6,651 | 6,592 | 6,769 | 6,972 | 7,093 |
| Lunatic Asylums | 333 | 339 | 268 | 293 | 275 | 281 | 285 | 326 | 400 | 372 | 349 |

* Including the Strand Union Workhouse at Edmonton, and the Holborn Union Workhouse at Mitcham.

Mortality in different parts of London.—The distribution of the registered mortality in London is seriously affected by the general hospitals. For purposes of fair comparison between one district, or one group of districts, and another, it is necessary to make correction for this disturbing element. The following Table has, therefore, been constructed, in which the hospital deaths have been transferred to the districts from which the deceased had been admitted, and certain other corrections have been made as explained in the note to the Table.

DEATHS BELONGING to the SEVERAL SANITARY AREAS of REGISTRATION LONDON, registered in the 52 WEEKS of 1888.

| SANITARY AREAS. | Deaths. | Deaths from Principal Zymotic Diseases. | | | | | | | | | | Deaths of Infants under 1 Year of Age. | Deaths under 1 Year, to 1000 Births registered. |
|----------------------------|---------|---|----------|----------------|-------------|-----------------|---------|----------------|-------------------------------|------------|--------|--|---|
| | | Small-pox. | Measles. | Scarlet Fever. | Diphtheria. | Whooping-cough. | Typhus. | Enteric Fever. | Simple and ill-defined Fever. | Diarrhoea. | | | |
| REGISTRATION LONDON | 77,686 | 9 | 2,401 | 1,196 | 1,268 | 2,986 | 10 | 658 | 83 | 2,166 | 19,164 | 146 | |
| WEST. | | | | | | | | | | | | | |
| Paddington - - - - - | 1,905 | 1 | 67 | 14 | 76 | 74 | - | 18 | - | 37 | 372 | 181 | |
| Kensington - - - - - | 2,858 | - | 125 | 26 | 91 | 103 | - | 23 | 2 | 58 | 607 | 161 | |
| Hammer-smith - - - | 1,720 | - | 58 | 21 | 38 | 77 | - | 18 | - | 74 | 496 | 173 | |
| Fulham - - - - - | 1,497 | 1 | 70 | 14 | 10 | 67 | 1 | 11 | 1 | 77 | 481 | 161 | |
| Chelsea - - - - - | 1,852 | - | 62 | 22 | 14 | 76 | 1 | 6 | 1 | 87 | 462 | 151 | |
| St. George Hanover Square | 1,435 | - | 11 | 15 | 46 | 25 | - | 6 | 1 | 25 | 221 | 132 | |
| Westminster - - - | 1,095 | - | 10 | 20 | 87 | 58 | - | 7 | - | 23 | 244 | 167 | |
| St. James Westminster | 476 | - | 5 | 6 | 5 | 7 | - | 8 | - | 8 | 95 | 161 | |
| NORTH. | | | | | | | | | | | | | |
| Marylebone - - - - - | 2,852 | - | 127 | 23 | 23 | 58 | - | 18 | 1 | 52 | 617 | 138 | |
| Hampestead - - - - | 715 | - | 23 | 4 | 16 | 18 | - | 3 | - | 13 | 183 | 110 | |
| Pancras - - - - - | 4,543 | 1 | 203 | 52 | 72 | 151 | - | 87 | 1 | 99 | 1,104 | 150 | |
| Islington - - - - - | 5,197 | - | 147 | 64 | 50 | 231 | 1 | 54 | 5 | 162 | 1,271 | 183 | |
| Hackney - - - - - | 3,596 | - | 124 | 62 | 76 | 137 | 1 | 36 | - | 82 | 674 | 134 | |
| CENTRAL. | | | | | | | | | | | | | |
| St. Giles - - - - - | 870 | - | 16 | 4 | 11 | 17 | - | 8 | - | 9 | 177 | 146 | |
| St. Martin-in-the-Fields | 314 | - | 10 | 11 | 3 | 4 | 1 | 2 | - | 6 | 52 | 176 | |
| Strand - - - - - | 613 | - | 12 | 5 | 3 | 18 | - | 5 | - | 10 | 125 | 173 | |
| Holborn - - - - - | 803 | - | 14 | 7 | 5 | 23 | - | 4 | - | 18 | 177 | 190 | |
| Clerkenwell - - - - | 1,524 | - | 64 | 18 | 26 | 65 | - | 11 | 1 | 73 | 429 | 186 | |
| St. Luke's - - - - - | 1,187 | - | 46 | 21 | 10 | 53 | - | 5 | 1 | 57 | 302 | 149 | |
| London City - - - - | 900 | 1 | 12 | 12 | 11 | 16 | - | 5 | 1 | 10 | 109 | 139 | |
| EAST. | | | | | | | | | | | | | |
| Shoreditch - - - - - | 2,719 | - | 102 | 34 | 32 | 128 | - | 20 | - | 108 | 724 | 156 | |
| Bethnal Green - - - | 2,958 | 1 | 124 | 120 | 62 | 167 | - | 19 | - | 67 | 771 | 156 | |
| Whitechapel - - - - | 1,558 | - | 26 | 18 | 24 | 38 | - | 13 | - | 64 | 405 | 165 | |
| St. George-in-the-East | 1,283 | - | 61 | 6 | 18 | 37 | - | 11 | 1 | 65 | 338 | 195 | |
| Stepney - - - - - | 1,465 | - | 95 | 22 | 25 | 63 | - | 10 | 1 | 46 | 397 | 181 | |
| Mill End Old Town - | 2,100 | 1 | 105 | 55 | 20 | 98 | - | 23 | - | 49 | 546 | 136 | |
| Poplar - - - - - | 3,326 | - | 153 | 85 | 42 | 133 | - | 53 | - | 78 | 831 | 138 | |
| SOUTH. | | | | | | | | | | | | | |
| St. Saviour Southwark | 702 | - | 33 | 9 | 13 | 18 | - | 5 | - | 24 | 189 | 203 | |
| St. George Southwark | 1,883 | - | 24 | 18 | 23 | 54 | 1 | 8 | - | 50 | 365 | 172 | |
| Newington - - - - - | 2,147 | - | 29 | 36 | 18 | 74 | 1 | 12 | 2 | 52 | 579 | 143 | |
| St. Olave Southwark | 236 | - | 1 | 3 | 4 | 5 | - | 2 | - | 4 | 59 | 149 | |
| Bermondsey - - - - | 1,788 | - | 22 | 26 | 14 | 64 | - | 22 | - | 64 | 476 | 164 | |
| Rotherhithe - - - - | 829 | - | 12 | 14 | 8 | 21 | 1 | 10 | 1 | 43 | 239 | 188 | |
| Lambeth - - - - - | 5,036 | - | 119 | 81 | 107 | 170 | - | 37 | 3 | 120 | 1,201 | 133 | |
| Battersea - - - - - | 2,887 | - | 84 | 42 | 27 | 121 | - | 16 | 4 | 82 | 740 | 146 | |
| Wandsworth - - - - | 2,160 | 1 | 56 | 29 | 65 | 99 | - | 20 | 1 | 68 | 541 | 132 | |
| Camberwell - - - - | 3,959 | 1 | 102 | 106 | 64 | 164 | 2 | 28 | 3 | 118 | 974 | 187 | |
| Greenwich - - - - - | 2,855 | 1 | 28 | 40 | 24 | 189 | - | 21 | 2 | 82 | 737 | 143 | |
| Lewisham (excluding Penge) | 1,020 | 18 | 16 | 31 | 55 | - | - | 9 | - | 21 | 227 | 135 | |
| Woolwich - - - - - | 1,746 | - | 9 | 5 | 3 | 16 | - | 5 | - | 10 | 178 | 138 | |
| Plumstead - - - - - | 1,107 | - | 2 | 10 | 24 | 44 | - | 4 | - | 21 | 269 | 99 | |

NOTE.—In the above Table 141 deaths in Hospitals and in other Public Institutions (including the Strand Union Workhouse at Edmonton, the Holborn Union Workhouse at Mitcham, and all the Metropolitan Asylum Hospitals, but not the County and Metropolitan Lunatic and Imbecile Asylums) situated outside Registration London have been distributed to the sanitary areas from which the deceased inmates were admitted; while, on the other hand, the deaths of 1,162 non-residents who died in Public Institutions inside London have been excluded.

If the figures in this Table be taken as the basis, and the rates calculated afresh, and if it be assumed that the rate of increase or decrease of population between 1871 and 1881 in the five great groups of districts has since been maintained, we obtain the following results.

BIRTH- and DEATH-RATES of PERSONS *belonging to* LONDON and its GROUPS of REGISTRATION DISTRICTS, in the 52 weeks of 1888.

| | PER 1000 PERSONS LIVING. | | | | | | | | | | | | | Deaths under 1 Year to 1000 Births registered. |
|------------------------|--------------------------|-------------|-----------------------------|------------|----------|----------------|-------------|-----------------|---------|----------------|-------------------------------|-----------|-----|--|
| | BIRTHS. | Deaths from | | | | | | | | | | | | |
| | | ALL CAUSES. | Principal Zymotic Diseases. | Small-pox. | Measles. | Scarlet Fever. | Diphtheria. | Whooping-cough. | Typhus. | Enteric Fever. | Simple and Ill-Defined Fever. | Diarrhea. | | |
| REGISTRATION LONDON* . | 30·7 | 18·2 | 2·51 | 0·00 | 0·56 | 0·28 | 0·30 | 0·70 | 0·00 | 0·15 | 0·01 | 0·51 | 146 | |
| West Districts - | 25·5 | 16·9 | 2·40 | 0·00 | 0·54 | 0·18 | 0·42 | 0·64 | 0·00 | 0·13 | 0·01 | 0·48 | 154 | |
| North Districts | 28·3 | 16·4 | 2·17 | 0·00 | 0·60 | 0·20 | 0·23 | 0·58 | 0·00 | 0·16 | 0·01 | 0·39 | 137 | |
| Central Districts | 36·5 | 27·2 | 3·29 | 0·00 | 0·77 | 0·34 | 0·30 | 0·86 | 0·00 | 0·18 | 0·01 | 0·83 | 166 | |
| East Districts - | 35·8 | 21·1 | 3·42 | 0·00 | 0·90 | 0·47 | 0·29 | 0·91 | — | 0·20 | 0·00 | 0·65 | 154 | |
| South Districts | 31·6 | 17·3 | 2·25 | 0·00 | 0·35 | 0·29 | 0·29 | 0·69 | 0·00 | 0·13 | 0·01 | 0·49 | 141 | |

* The rates for Registration London given in this Table do not precisely correspond with those given in Table 12, as in calculating the rates given above the deaths of non-residents occurring in hospitals have not been taken into account.

Uncertified Causes of Death.—The causes of 766, or 1·0 per cent. of the registered deaths in Registration London, were not certified either by a registered medical practitioner or by a coroner (see Table 2); in the four preceding years the proportion ranged from 1·3 to 1·1 per cent. The proportion of uncertified deaths in the aggregate of the twenty-seven provincial towns was 2·9 per cent.; it ranged from 1·0 in Plymouth and 1·1 in Portsmouth and in Norwich, to 5·0 per cent. in Liverpool, 5·4 in Halifax, 5·5 in Sheffield, and 5·6 in Hull. Liverpool, Halifax, and Sheffield were also amongst the four towns showing the largest proportions of uncertified deaths in 1887; Hull, however, has this year taken a place among the four which was occupied in 1887 by Oldham. The proportion in Hull increased from 4·4 in 1887 to 5·6 in 1888, while that in Oldham declined from 5·4 in 1887 to 3·1 in 1888.

GREATER LONDON.—The estimated population of Greater London (see Table 8), which is co-extensive with the Metropolitan and City Police Districts, was 5,527,886 persons in the middle of 1888. The recorded death-rate in this population was 17·8 per 1,000, against 19·3 and 18·9 in 1886 and 1887. In Inner or Registration London the rate, as has already been noted, was 18·5, while in the Outer Ring of suburban districts around London, after correction for the three Middlesex County Lunatic Asylums and for the Surrey County Lunatic Asylum at Cane Hill the rate did not exceed 15·0 per 1,000, against 16·5 and 15·9 in the two preceding years. The death-rate from the principal zymotic diseases was 2·40 in Greater London, being 2·53 in Inner London, and only 1·95 in the Outer Ring; each of these rates showed a considerable decline from those respectively recorded in the preceding year. Infant mortality, measured by the proportion of deaths under one year to registered births, was equal to 140 per 1,000 in Greater London, against

152 in 1887; in Inner London this proportion of infant mortality was (Tables 2 and 3) 146 per 1,000, while in the Outer Ring of suburban districts it did not exceed 120.

HEALTH OF FOREIGN CITIES.—The rate of mortality in thirty-two Colonial and Foreign cities (Table 5) averaged 26·1 per 1000 of their estimated population in 1888. In the three principal Indian cities the mean rate was 30·5; the rate was 25·9 in Calcutta, 29·0 in Bombay, and 37·8 in Madras. In twenty-two of the largest European cities, having an estimated population of more than eleven millions of persons, the mean rate of mortality was 25·4 per 1000, and exceeded by 6·2 the mean rate in the twenty-eight large English towns with an aggregate estimated population exceeding nine millions. The lowest rates in these European cities were 19·8 in Stockholm, 20·3 in Berlin, 20·5 in the Hague, 20·7 in Dresden, and 21·1 in Brussels; the rates in the other cities ranged upwards to 31·6 in Budapesth, 31·9 in Prague, 34·6 in St. Petersburg, and 36·8 in Moscow. In Paris the rate was 22·6, showing a further decline from the rates in recent years, but exceeding the rate in London by 4·1. The death-rate in Berlin, which had declined in the four preceding years from 26·4 to 21·9, further fell in 1888 to 20·3. In St. Petersburg, however, the rate rose from 30·7 and 27·8 in the two preceding years to 34·6. Small-pox caused during the year 745 deaths in Prague, 257 in Paris, 239 in Trieste, 62 in Vienna, and 61 in St. Petersburg. The mortality from measles showed the largest proportional excess in Christiania, St. Petersburg, Hamburg, and Prague; scarlet fever in Copenhagen, Stockholm, and St. Petersburg; diphtheria in Paris, Copenhagen, Stockholm, Christiania, St. Petersburg, in all the German and Austrian cities, and Turin; and "fever" (principally enteric) in St. Petersburg, Hamburg, Prague, and Rome. Diarrhoea mortality in most of the European cities showed a marked excess compared with that which prevailed in the English towns; the excess was proportionally greatest in Moscow, St. Petersburg, and Munich. The death-rate was 48·9 in Cairo and 38·8 in Alexandria, exceeding in each case the rate that prevailed in 1887; the excess in these rates was mainly due to "fever" and diarrhoeal diseases. The mean recorded death-rate in five of the principal American cities, was 23·4; in the several cities the rates ranged from 20·1 in Philadelphia, to 26·3 in New York, the rates not differing materially from those in 1887. Small-pox caused 81 deaths in New York, 13 in Brooklyn, and 80 in Philadelphia; the mortality from diphtheria again showed a marked excess in New York and Brooklyn, and that from typhoid fever was again highest in Philadelphia.

TABLE 1.—28 Towns.—Population: Births, Deaths, and Meteorology, in the 52 Weeks of 1888.

| CITIES AND BOROUGH. | Population, Estimated, to the middle of 1883. | Persons to an Acre. | The Deaths registered in the 52 Weeks include | | | | | | | | | | | | | | | MEAN TEMPERATURE (Inches). | RAIN- FALL (Inches). | CITIES AND BOROUGH. | |
|---------------------------|---|---------------------------|---|-----------|---------------------------------------|-----------------------------------|------------|----------|-------------------|-------------|---------------------|--------|------------|-----------|------|----------------|--------------------------------------|----------------------------------|----------------------------|---------------------------|--------------------------------|
| | | | Deaths | Deaths of | | Deaths from | | | | | | | | | | Inquest Cases. | Deaths in Public Institutions. | | | | Unsanitary Causes of Death. |
| | | | | Births. | Infants under 1 Year of Age. | Principal Zymotic Diseases. | Small-pox. | Measles. | Scarlet Fever. | Diphtheria. | Whooping- cough. | Fever. | Dysentery. | Violence. | | | | | | | |
| | | | | | | | | | | | | | | | | | | | | | |
| Cols. | 1. | 2. | 3. | 4. | 5. | 6. | 7. | 8. | 9. | 10. | 11. | 12. | 13. | 14. | 15. | 16. | 17. | 18. | 19. | 20. | Cols. |
| 28 TOWNS. | 9,398,273 | 37.4 | 292,455 | 179,955 | 451,622 | 402,655 | 225,065 | 604 | 4383 | 2668 | 1971 | 5452 | 1893 | 5595 | 6111 | 12127 | 31200 | 3739 | 46.3 | 27.11 | - |
| LONDON. | 4,882,921 | 57.3 | 131,080 | 78,848 | 191,965 | 183,400 | 108,003 | 9 | 2401 | 1209 | 1301 | 2087 | 720 | 2176 | 2983 | 5816 | 17738 | 765 | 47.7 | 27.49 | LONDON. |
| BRIGHTON. | 119,983 | 47.3 | 2790 | 1993 | 415 | 627 | 162 | - | 4 | 9 | 24 | 46 | 15 | 61 | 36 | 72 | 311 | 47 | 47.1 | 29.27 | BRIGHTON. |
| PORTSMOUTH. | 139,575 | 22.3 | 4976 | 2610 | 668 | 688 | 238 | - | 50 | 12 | 16 | 25 | 29 | 96 | 100 | 174 | 349 | 29 | - | - | PORTSMOUTH. |
| NORWICH. | 93,675 | 12.5 | 3233 | 1883 | 527 | 604 | 199 | - | - | 17 | 30 | 63 | 17 | 67 | 37 | 110 | 161 | 21 | - | - | NORWICH. |
| PLYMOUTH. | 24,517 | 52.9 | 2451 | 1767 | 399 | 511 | 138 | - | 70 | 7 | 11 | 4 | 16 | 30 | 55 | 112 | 163 | 18 | 48.9 | 36.81 | PLYMOUTH. |
| BRISTOL. | 226,510 | 48.9 | 6614 | 3316 | 815 | 1132 | 290 | 25 | 66 | 44 | 21 | 36 | 29 | 68 | 141 | 256 | 702 | 100 | 46.6 | 33.35 | BRISTOL. |
| WOLVERHAMPTON. | 81,691 | 24.1 | 2680 | 1684 | 448 | 425 | 194 | - | 38 | 16 | 10 | 58 | 13 | 59 | 72 | 123 | 264 | 26 | 44.7 | 21.80 | WOLVERHAMPTON. |
| BIRMINGHAM. | 447,912 | 53.3 | 13728 | 7954 | 2110 | 1746 | 874 | - | 190 | 38 | 42 | 234 | 60 | 310 | 319 | 718 | 1271 | 266 | - | - | BIRMINGHAM. |
| LEICESTER. | 146,790 | 45.9 | 4786 | 2680 | 958 | 574 | 361 | - | 73 | 4 | 13 | 86 | 33 | 147 | 87 | 311 | 338 | 55 | - | - | LEICESTER. |
| NOTTINGHAM. | 230,921 | 23.2 | 6879 | 3976 | 1037 | 970 | 479 | 12 | 114 | 25 | 32 | 79 | 91 | 126 | 122 | 220 | 499 | 62 | 45.5 | 20.01 | NOTTINGHAM. |
| DERBY. | 96,241 | 27.9 | 2825 | 1561 | 404 | 408 | 172 | 1 | 20 | 32 | 7 | 54 | 28 | 30 | 48 | 118 | 187 | 24 | - | - | DERBY. |
| BIRKENHEAD. | 100,093 | 28.0 | 3060 | 1776 | 463 | 403 | 157 | - | 18 | 34 | 7 | 23 | 33 | 39 | 53 | 120 | 215 | 22 | - | - | BIRKENHEAD. |
| LIVERPOOL. | 599,738 | 115.1 | 17777 | 12159 | 2981 | 2080 | 1408 | 1 | 331 | 187 | 66 | 313 | 161 | 439 | 556 | 661 | 2069 | 608 | 46.8 | 24.17 | LIVERPOOL. |
| BOLTON. | 113,506 | 47.2 | 3700 | 2444 | 637 | 471 | 312 | 1 | 33 | 54 | 9 | 63 | 35 | 117 | 68 | 132 | 214 | 62 | - | - | BOLTON. |
| MANCHESTER. | 375,164 | 63.8 | 12318 | 9834 | 2246 | 1815 | 1183 | 22 | 130 | 166 | 129 | 318 | 128 | 290 | 330 | 754 | 1902 | 245 | - | - | MANCHESTER. |
| SALFORD. | 226,336 | 43.8 | 7196 | 4770 | 1510 | 815 | 797 | - | 130 | 100 | 59 | 222 | 98 | 188 | 154 | 229 | 640 | 171 | - | - | SALFORD. |
| OLDHAM. | 133,220 | 29.2 | 4183 | 2800 | 630 | 552 | 263 | 14 | 53 | 66 | 32 | 39 | 22 | 37 | 67 | 127 | 276 | 87 | - | - | OLDHAM. |
| BLACKBURN. | 119,089 | 17.1 | 4046 | 2857 | 768 | 538 | 490 | 11 | 116 | 172 | 1 | 72 | 43 | 75 | 54 | 83 | 289 | 81 | - | - | BLACKBURN. |
| PRESTON. | 163,294 | 27.7 | 3861 | 2460 | 726 | 510 | 315 | 52 | 2 | 22 | 23 | 23 | 20 | 158 | 59 | 118 | 239 | 64 | - | - | PRESTON. |
| HUDDESFIELD. | 91,419 | 8.7 | 2243 | 1687 | 352 | 408 | 138 | 2 | 31 | 25 | 15 | 37 | 11 | 17 | 52 | 59 | 162 | 57 | - | - | HUDDESFIELD. |
| HAILEX. | 80,138 | 21.3 | 2282 | 1546 | 352 | 462 | 94 | 1 | 11 | 20 | 4 | 36 | 8 | 14 | 36 | 42 | 169 | 83 | - | - | HAILEX. |
| BRADFORD. | 226,721 | 21.3 | 6267 | 3924 | 962 | 903 | 364 | 2 | 126 | 33 | 5 | 41 | 24 | 133 | 115 | 235 | 362 | 89 | 46.1 | 24.64 | BRADFORD. |
| LEEDS. | 351,210 | 16.3 | 11407 | 7200 | 1975 | 1550 | 945 | 18 | 202 | 101 | 16 | 226 | 53 | 399 | 228 | 539 | 666 | 110 | - | - | LEEDS. |
| SHEFFIELD. | 321,711 | 16.4 | 9861 | 6586 | 1758 | 1281 | 1152 | 408 | 48 | 138 | 29 | 143 | 59 | 307 | 153 | 216 | 733 | 363 | - | - | SHEFFIELD. |
| HULL. | 202,359 | 25.6 | 6284 | 3313 | 874 | 824 | 291 | 19 | 5 | 42 | 11 | 44 | 32 | 78 | 102 | 133 | 411 | 185 | 45.1 | 23.40 | HULL. |
| SUNDERLAND. | 131,919 | 43.5 | 4565 | 2376 | 605 | 559 | 176 | 1 | 2 | 20 | 15 | 46 | 29 | 63 | 98 | 207 | 215 | 44 | - | - | SUNDERLAND. |
| NEWCASTLE. | 159,003 | 29.6 | 6010 | 3261 | 822 | 715 | 230 | - | 10 | 23 | 34 | 70 | 30 | 63 | 139 | 256 | 396 | 76 | 44.6 | 26.45 | NEWCASTLE. |
| CARDIFF. | 108,570 | 14.7 | 4312 | 2214 | 624 | 354 | 321 | 4 | 109 | 32 | 9 | 51 | 38 | 73 | 117 | 186 | 278 | 46 | - | - | CARDIFF. |

These estimates are based on the assumption that the rates of increase which prevailed between 1871 and 1881 have since been maintained.

* These estimates are based on the assumption that the rates of increase which prevailed between 1871 and 1881 have since been maintained.
† For the purposes of these Tables, LONDON includes the Strand Union Workhouse at Edmonton, the Holborn Union Workhouse at Metcham, and the Metropolitan Asylum Hospitals situated outside Registration London. Several of the provincial towns have been similarly corrected by the addition of deaths occurring in Public Institutions situated beyond their limits.

TABLE 2.—28 Towns.—Birth-, and Death-rates, and Analysis of Mortality, in the 52 Weeks of 1888.

In this Table, 0·00 indicates that the deaths were too few to give a rate of 0·005; when no deaths occurred, — is inserted.

| CITIES AND BOROUGHES. | ANNUAL RATES PER 1000 PERSONS LIVING. | | | | | | | | | | PERCENTAGE To Total Deaths. | | | | CITIES AND BOROUGHES. | | | | | | | | | | | |
|-----------------------------|---------------------------------------|----------------------|-----------------------|-----------------|----------------------|-------------|------|------|------|------|---|---|--|-----------|-----------------------------|----------------|--------------------------------------|------------------------------------|------------|-------------------|--------------------|-------------|-------------------|----------|------------|-------------------------------------|
| | Total Deaths. | | | | | Deaths from | | | | | DEATHS under 1 Year to 1000 Births. | ANNUAL RATE OF MORTALITY per 1000 living. | | | | Inquest Cases. | Deaths in Public Institutions. | Unidentified Cause of Death. | | | | | | | | |
| | 52 Weeks ending | | | | | Deaths from | | | | | | Aged to 60 Years. | Aged 60 Years and upwards. | | | | | | | | | | | | | |
| | 31st Dec. 1887. | | | | | Deaths from | | | | | | | | Violence. | | | | | Diarrhoea. | Typhoid Fever. | Whooping Cough. | Diphtheria. | Scarlet Fever. | Measles. | Small-pox. | Principal Dysentery Diseases. |
| | 2nd Jan. 1886. | 1st Jan. 1887. | 31st Dec. 1887. | 52 Weeks ending | 2nd Dec. 1888. | 8. | 9. | 10. | 11. | 12. | | | | | | | | | | | | | | | | |
| 28 TOWNS - | 31·2 | 20·9 | 20·8 | 19·2 | 2·41 | 0·06 | 0·47 | 0·29 | 0·21 | 0·58 | 0·20 | 0·60 | 0·68 | 154 | 11·1 | 72·7 | 6·7 | 17·3 | 2·1 | - 28 TOWNS. | | | | | | |
| LONDON* | 30·7 | 19·8 | 19·6 | 18·5 | 2·53 | — | 0·56 | 0·28 | 0·30 | 0·70 | 0·17 | 0·52 | 0·70 | 146 | 10·7 | 68·4 | 7·4 | 22·5 | 1·0 | LONDON.* | | | | | | |
| BRIGHTON | 23·3 | 17·1 | 16·9 | 16·1 | 1·35 | — | 0·03 | 0·08 | 0·20 | 0·41 | 0·13 | 0·50 | 0·30 | 149 | 8·3 | 66·2 | 3·7 | 16·1 | 2·4 | BRIGHTON. | | | | | | |
| PORTSMOUTH - | 35·8 | 19·7 | 23·8 | 19·5 | 1·64 | — | 0·36 | 0·09 | 0·12 | 0·18 | 0·21 | 0·68 | 0·72 | 134 | 10·0 | 72·0 | 6·7 | 13·4 | 1·1 | PORTSMOUTH. | | | | | | |
| NORWICH - | 34·6 | 20·3 | 23·3 | 20·4 | 2·13 | — | — | 0·18 | 0·32 | 0·73 | 0·18 | 0·72 | 0·40 | 163 | 9·1 | 71·2 | 5·8 | 8·6 | 1·1 | NORWICH. | | | | | | |
| PLYMOUTH - | 31·7 | 22·3 | 23·5 | 22·7 | 1·78 | — | 0·30 | 0·09 | 0·14 | 0·05 | 0·21 | 0·39 | 0·71 | 163 | 12·0 | 72·0 | 6·5 | 8·8 | 1·0 | PLYMOUTH. | | | | | | |
| BRISTOL - | 29·3 | 19·7 | 20·4 | 16·9 | 1·28 | 0·12 | 0·29 | 0·19 | 0·09 | 0·16 | 0·13 | 0·30 | 0·62 | 123 | 9·2 | 76·7 | 6·7 | 18·4 | 2·6 | BRISTOL. | | | | | | |
| WOLVERHAMPTON - | 32·9 | 20·2 | 21·7 | 20·7 | 2·38 | — | 0·47 | 0·20 | 0·12 | 0·71 | 0·16 | 0·72 | 0·88 | 167 | 11·0 | 81·7 | 7·3 | 15·7 | 1·5 | WOLVERHAMPTON. | | | | | | |
| BIRMINGHAM - | 30·8 | 19·3 | 19·7 | 17·8 | 1·96 | — | 0·43 | 0·09 | 0·09 | 0·52 | 0·13 | 0·70 | 0·78 | 154 | 10·0 | 74·0 | 9·0 | 16·0 | 2·6 | BIRMINGHAM. | | | | | | |
| LEICESTER - | 32·7 | 19·8 | 20·3 | 19·5 | 18·3 | 2·47 | — | 0·50 | 0·03 | 0·59 | 0·26 | 1·00 | 0·59 | 200 | 8·6 | 65·5 | 11·6 | 12·2 | 2·1 | LEICESTER. | | | | | | |
| NOTTINGHAM - | 29·9 | 19·9 | 20·4 | 18·7 | 2·08 | 0·05 | 0·50 | 0·11 | 0·14 | 0·34 | 0·40 | 0·54 | 0·53 | 151 | 9·4 | 68·0 | 5·5 | 10·8 | 1·6 | NOTTINGHAM. | | | | | | |
| DERBY - | 29·5 | 18·1 | 18·2 | 17·1 | 1·79 | 0·01 | 0·21 | 0·33 | 0·07 | 0·56 | 0·20 | 0·32 | 0·50 | 143 | 8·6 | 63·8 | 7·6 | 12·0 | 1·5 | DERBY. | | | | | | |
| BIRKENHEAD - | 30·7 | 19·5 | 19·1 | 21·0 | 1·57 | — | 0·18 | 0·34 | 0·07 | 0·23 | 0·36 | 0·39 | 0·53 | 151 | 10·0 | 77·1 | 6·8 | 12·1 | 1·2 | BIRKENHEAD. | | | | | | |
| LIVERPOOL - | 29·7 | 23·8 | 23·8 | 23·7 | 2·51 | 0·00 | 0·55 | 0·31 | 0·11 | 0·52 | 0·27 | 0·75 | 0·93 | 168 | 12·9 | 69·8 | 5·4 | 17·0 | 5·0 | LIVERPOOL. | | | | | | |
| BOLTON - | 32·7 | 20·8 | 23·1 | 21·3 | 2·76 | 0·01 | 0·29 | 0·48 | 0·08 | 0·56 | 0·31 | 1·03 | 0·60 | 172 | 12·8 | 85·6 | 5·4 | 8·8 | 2·5 | BOLTON. | | | | | | |
| MANCHESTER - | 35·3 | 26·5 | 26·3 | 28·7 | 3·14 | 0·06 | 0·34 | 0·44 | 0·34 | 0·84 | 0·34 | 0·78 | 0·88 | 176 | 16·3 | 98·4 | 7·7 | 20·3 | 2·5 | MANCHESTER. | | | | | | |
| SALFORD - | 31·6 | 21·1 | 22·2 | 21·1 | 3·53 | — | 0·58 | 0·44 | 0·26 | 0·98 | 0·43 | 0·84 | 0·68 | 184 | 12·7 | 79·5 | 4·8 | 13·4 | 3·6 | SALFORD. | | | | | | |
| OLDHAM - | 30·4 | 22·0 | 22·8 | 23·8 | 1·91 | 0·10 | 0·38 | 0·48 | 0·23 | 0·28 | 0·16 | 0·28 | 0·49 | 151 | 12·7 | 83·0 | 4·5 | 9·9 | 3·1 | OLDHAM. | | | | | | |
| BLACKBURN - | 34·1 | 21·8 | 25·5 | 23·9 | 4·13 | 0·09 | 0·98 | 1·45 | 0·01 | 0·61 | 0·36 | 0·63 | 0·46 | 190 | 14·0 | 91·6 | 2·9 | 10·2 | 2·9 | BLACKBURN. | | | | | | |
| PRESTON - | 37·5 | 27·1 | 28·9 | 27·9 | 3·06 | 0·51 | 0·02 | 0·21 | 0·22 | 0·27 | 0·29 | 1·54 | 0·57 | 188 | 13·0 | 86·7 | 4·8 | 9·7 | 2·6 | PRESTON. | | | | | | |
| HUDDESFIELD - | 24·6 | 20·1 | 19·6 | 23·0 | 1·51 | 0·02 | 0·34 | 0·27 | 0·16 | 0·41 | 0·12 | 0·19 | 0·57 | 157 | 11·1 | 74·9 | 3·5 | 9·6 | 3·4 | HUDDESFIELD. | | | | | | |
| HALIFAX - | 28·6 | 19·7 | 22·8 | 21·0 | 1·18 | 0·01 | 0·14 | 0·25 | 0·05 | 0·45 | 0·10 | 0·18 | 0·45 | 154 | 10·1 | 92·9 | 2·7 | 10·3 | 5·4 | HALIFAX. | | | | | | |
| BRADFORD - | 27·4 | 17·7 | 19·2 | 19·9 | 1·59 | 0·01 | 0·55 | 0·14 | 0·02 | 0·18 | 0·10 | 0·59 | 0·50 | 153 | 9·8 | 76·4 | 6·0 | 9·2 | 2·3 | BRADFORD. | | | | | | |
| LEEDS - | 32·6 | 19·9 | 21·9 | 21·1 | 2·70 | 0·05 | 0·58 | 0·29 | 0·05 | 0·65 | 0·16 | 0·93 | 0·65 | 173 | 11·5 | 82·8 | 7·5 | 9·2 | 1·5 | LEEDS. | | | | | | |
| SHEFFIELD - | 30·8 | 20·7 | 19·8 | 21·6 | 3·59 | 1·27 | 0·15 | 0·49 | 0·09 | 0·45 | 0·18 | 0·98 | 0·48 | 178 | 12·0 | 81·7 | 3·3 | 11·1 | 5·5 | SHEFFIELD. | | | | | | |
| HULL - | 31·2 | 17·2 | 18·8 | 19·2 | 1·64 | 0·09 | 0·02 | 0·21 | 0·05 | 0·22 | 0·16 | 0·40 | 0·51 | 139 | 8·8 | 66·0 | 4·0 | 12·4 | 5·6 | HULL. | | | | | | |
| SUNDERLAND - | 34·7 | 23·8 | 19·5 | 19·7 | 1·34 | 0·01 | 0·02 | 0·15 | 0·11 | 0·35 | 0·22 | 0·48 | 0·75 | 133 | 10·1 | 73·2 | 8·7 | 9·0 | 1·9 | SUNDERLAND. | | | | | | |
| NEWCASTLE - | 37·9 | 26·1 | 22·2 | 25·3 | 1·45 | — | 0·06 | 0·13 | 0·21 | 0·44 | 0·19 | 0·40 | 0·88 | 137 | 11·9 | 80·9 | 7·9 | 12·1 | 2·2 | NEWCASTLE. | | | | | | |
| CARDIFF - | 40·8 | 25·7 | 22·6 | 21·9 | 2·97 | 0·04 | 1·01 | 0·30 | 0·08 | 0·47 | 0·35 | 0·72 | 1·08 | 141 | 12·3 | 72·8 | 8·4 | 12·6 | 2·1 | CARDIFF. | | | | | | |

* See note (†) to Table 1.

TABLE 3.—28 Towns.—Death-rates from All Causes, and from the Principal Zymotic Diseases, and Infant Mortality, in the Ten Years 1878-87, and in 1888.

In this Table 0·00 indicates that the deaths were too few to give a rate of 0·005; when no deaths occurred, — is inserted.

| TOWNS. | ALL CAUSES. | | SMALL-POX. | | MEASLES. | | SCARLET FEVER. | | DIPHTHERIA. | | WHOOPING-COUGH. | | FEVER. | | DIARRHEA. | | DEATHS UNDER ONE YEAR OF AGE TO 1000 BIRTHS. | |
|----------------|--------------------|-------|--------------------|-------|--------------------|-------|--------------------|-------|--------------------|-------|--------------------|-------|--------------------|-------|--------------------|-------|--|-------|
| | Ten years 1878-87. | 1888. | Ten years 1878-87. | 1888. | Ten years 1878-87. | 1888. | Ten years 1878-87. | 1888. | Ten years 1878-87. | 1888. | Ten years 1878-87. | 1888. | Ten years 1878-87. | 1888. | Ten years 1878-87. | 1888. | Ten years 1878-87. | 1888. |
| 28 Towns† | 21·3 | 19·2 | 0·09 | 0·06 | 0·63 | 0·47 | 0·41 | 0·29 | 0·17 | 0·21 | 0·63 | 0·38 | 0·28 | 0·20 | 0·91 | 0·60 | 168 | 151 |
| LONDON* | 21·0 | 18·5 | 0·21 | 0·00 | 0·58 | 0·56 | 0·46 | 0·28 | 0·20 | 0·20 | 0·78 | 0·70 | 0·25 | 0·17 | 0·80 | 0·52 | 154 | 146 |
| BRIGHTON. | 18·9 | 16·1 | 0·01 | — | 0·38 | 0·03 | 0·32 | 0·08 | 0·10 | 0·20 | 0·52 | 0·41 | 0·19 | 0·13 | 0·74 | 0·50 | 148 | 149 |
| PORTSMOUTH. | 20·0 | 18·8 | 0·00 | — | 0·50 | 0·36 | 0·14 | 0·00 | 0·43 | 0·12 | 0·40 | 0·18 | 0·64 | 0·21 | 0·91 | 0·68 | 130 | 134 |
| NORWICH. | 21·5 | 20·2 | 0·00 | — | 0·42 | — | 0·42 | 0·18 | 0·10 | 0·32 | 0·46 | 0·73 | 0·34 | 0·18 | 1·17 | 0·72 | 173 | 163 |
| PLYMOUTH. | 22·5 | 22·3 | 0·00 | — | 0·90 | 0·00 | 0·15 | 0·09 | 0·10 | 0·14 | 0·70 | 0·05 | 0·32 | 0·21 | 0·71 | 0·89 | 161 | 168 |
| PLYMOUTH. | 20·0 | 16·9 | 0·02 | 0·12 | 0·41 | 0·23 | 0·47 | 0·19 | 0·08 | 0·09 | 0·52 | 0·16 | 0·21 | 0·13 | 0·59 | 0·30 | 144 | 123 |
| BRISTOL. | 22·0 | 20·7 | 0·02 | — | 0·47 | 0·47 | 0·40 | 0·20 | 0·07 | 0·12 | 0·56 | 0·71 | 0·18 | 0·16 | 1·15 | 0·72 | 162 | 167 |
| WOLVERHAMPTON. | | | | | | | | | | | | | | | | | | |
| BIRMINGHAM. | 21·1 | 17·8 | 0·65 | — | 0·42 | 0·43 | 0·30 | 0·00 | 0·14 | 0·09 | 0·72 | 0·52 | 0·20 | 0·13 | 1·28 | 0·70 | 163 | 154 |
| LEICESTER. | 21·3 | 18·3 | — | — | 0·45 | 0·50 | 0·54 | 0·03 | 0·08 | 0·03 | 0·45 | 0·39 | 0·23 | 0·35 | 1·84 | 1·00 | 203 | 200 |
| NOTTINGHAM. | 21·5 | 17·3 | 0·03 | 0·05 | 0·54 | 0·20 | 0·63 | 0·11 | 0·08 | 0·14 | 0·48 | 0·34 | 0·31 | 0·40 | 1·14 | 0·54 | 176 | 151 |
| DERBY†. | 18·1 | 16·3 | 0·01 | 0·01 | 0·41 | — | 0·22 | 0·33 | 0·03 | 0·07 | 0·37 | 0·36 | 0·30 | 0·29 | 0·63 | 0·32 | 143 | 143 |
| BIRKENHEAD. | 19·7 | 17·8 | 0·02 | — | 0·51 | 0·18 | 0·54 | 0·34 | 0·11 | 0·07 | 0·54 | 0·23 | 0·33 | 0·36 | 0·70 | 0·39 | 130 | 151 |
| LIVERPOOL. | 23·0 | 20·3 | 0·00 | 0·00 | 0·93 | 0·53 | 0·78 | 0·31 | 0·14 | 0·11 | 0·73 | 0·52 | 0·27 | 0·19 | 0·75 | 0·75 | 188 | 168 |
| BOLTON†. | 22·3 | 21·6 | 0·03 | 0·01 | 0·84 | 0·29 | 0·13 | 0·48 | 0·06 | 0·08 | 0·58 | 0·56 | 0·26 | 0·31 | 1·40 | 1·03 | 178 | 172 |
| MANCHESTER. | 27·2 | 25·1 | 0·02 | 0·06 | 0·74 | 0·34 | 0·61 | 0·44 | 0·70 | 0·34 | 0·75 | 0·84 | 0·58 | 0·34 | 1·14 | 0·78 | 177 | 176 |
| SALFORD. | 23·8 | 21·1 | 0·01 | — | 0·71 | 0·58 | 0·78 | 0·44 | 0·11 | 0·36 | 0·74 | 0·98 | 0·43 | 0·45 | 1·54 | 0·84 | 182 | 181 |
| OLDHAM. | 23·7 | 20·3 | 0·02 | 0·10 | 0·08 | 0·38 | 0·76 | 0·48 | 0·15 | 0·23 | 0·55 | 0·28 | 0·24 | 0·16 | 0·75 | 0·28 | 171 | 151 |
| BLACKBURN†. | 21·4 | 23·9 | 0·01 | 0·01 | 0·60 | 0·42 | 0·88 | 0·53 | 0·16 | 0·01 | 0·52 | 0·61 | 0·49 | 0·36 | 1·27 | 0·63 | 189 | 180 |
| PRESTON†. | 27·4 | 23·9 | 0·01 | 0·51 | 0·75 | 0·02 | 0·33 | 0·21 | 0·13 | 0·22 | 0·34 | 0·27 | 0·34 | 0·29 | 2·37 | 1·54 | 218 | 188 |
| Huddersfield†. | 21·0 | 18·5 | — | 0·02 | 0·65 | 0·34 | 0·21 | 0·27 | 0·12 | 0·16 | 0·52 | 0·41 | 0·15 | 0·12 | 0·48 | 0·19 | 171 | 157 |
| HALIFAX†. | 21·2 | 19·4 | 0·00 | 0·01 | 0·37 | 0·11 | 0·20 | 0·25 | 0·00 | 0·05 | 0·23 | 0·45 | 0·27 | 0·10 | 0·40 | 0·18 | 168 | 154 |
| BRADFORD. | 20·5 | 17·1 | 0·01 | 0·01 | 0·41 | 0·55 | 0·53 | 0·14 | 0·07 | 0·02 | 0·40 | 0·18 | 0·24 | 0·10 | 0·87 | 0·59 | 165 | 153 |
| LEEDS. | 22·5 | 20·6 | 0·02 | 0·05 | 0·41 | 0·58 | 0·81 | 0·20 | 0·08 | 0·05 | 0·36 | 0·65 | 0·36 | 0·15 | 1·31 | 0·93 | 173 | 173 |
| SHEFFIELD. | 22·3 | 20·5 | 0·10 | 1·27 | 0·42 | 0·15 | 1·03 | 0·40 | 0·06 | 0·09 | 0·64 | 0·45 | 0·33 | 0·18 | 1·19 | 0·96 | 166 | 178 |
| HULL. | 21·6 | 16·4 | 0·03 | 0·09 | 0·30 | 0·02 | 0·87 | 0·21 | 0·07 | 0·05 | 0·52 | 0·22 | 0·35 | 0·16 | 1·30 | 0·40 | 162 | 139 |
| STURDLAND. | 23·1 | 18·1 | 0·13 | 0·01 | 0·79 | 0·02 | 1·10 | 0·15 | 0·10 | 0·11 | 0·59 | 0·55 | 0·37 | 0·22 | 1·10 | 0·48 | 198 | 133 |
| NEWCASTLE. | 23·9 | 20·6 | 0·10 | — | 0·66 | 0·03 | 0·82 | 0·15 | 0·09 | 0·21 | 0·56 | 0·44 | 0·41 | 0·19 | 0·95 | 0·40 | 162 | 137 |
| CARDIFF†. | 22·5 | 20·5 | 0·04 | 0·04 | 0·71 | 1·01 | 0·53 | 0·30 | 0·27 | 0·08 | 0·36 | 0·47 | 0·37 | 0·35 | 1·05 | 0·72 | 170 | 141 |

* See note (†) to Table 1.

† The rates for years prior to 1882 cannot be ascertained for these towns or for the aggregate of the 28 towns; the mean rates for the 6 years 1882-87 have therefore been inserted in the columns for decennial rates.

TABLE 4.—28 Towns.—Mean Temperature at Greenwich, and Annual Rate of Mortality in each Town, in each Week of 1882.

| Number of Week. | WEEK ENDING | MEAN TEM- PERATURE AT GREEN- WICH. | | ANNUAL RATE OF MORTALITY PER 1000 IN | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
|------------------------|----------------|---|-------------|--------------------------------------|----------|----------|-----------|-------------|----------|-----------|----------|---------------------|-------------|------------|-------------|----------|-------------|------------|----------|-------------|----------|----------|------------|----------|--------------|----------|-----------|----------|------------|----------|-------------|------------|----------|
| | | Fahrenheit. | Centigrade. | TOWNS. | | LONDON.* | BRIGHTON. | PORTSMOUTH. | NORWICH. | PLYMOUTH. | BRISTOL. | WOLVERHAM- PTON. | BIRMINGHAM. | LEICESTER. | NOTTINGHAM. | DERBY. | BIRKENHEAD. | LIVERPOOL. | BOLTON. | MANCHESTER. | SALFORD. | OLDHAM. | BLACKBURN. | PRESTON. | HUDDESFIELD. | HALIFAX. | BRADFORD. | LEEDS. | SHEFFIELD. | HULL. | SUNDERLAND. | NEWCASTLE. | CARDIFF. |
| | | | | Twenty-eight Flowers. | Flowers. | Flowers. | Flowers. | Flowers. | Flowers. | Flowers. | Flowers. | Flowers. | Flowers. | Flowers. | Flowers. | Flowers. | Flowers. | Flowers. | Flowers. | Flowers. | Flowers. | Flowers. | Flowers. | Flowers. | Flowers. | Flowers. | Flowers. | Flowers. | Flowers. | Flowers. | Flowers. | Flowers. | Flowers. |
| YEAR. (52 weeks) | 47.7 | 8.72 | ° | 19.2 | 18.5 | 16.1 | 18.8 | 20.2 | 22.3 | 16.9 | 20.7 | 17.8 | 18.3 | 17.3 | 16.3 | 17.8 | 20.3 | 21.6 | 26.1 | 21.1 | 20.3 | 23.9 | 23.9 | 18.5 | 19.4 | 17.1 | 20.6 | 20.5 | 16.4 | 18.1 | 20.6 | 20.5 | 20.5 |
| March Q. (13 weeks) | 36.9 | 2.72 | 22.1 | 22.0 | 18.5 | 25.1 | 23.6 | 38.8 | 20.4 | 24.9 | 20.2 | 20.6 | 20.6 | 21.4 | 10.2 | 20.2 | 22.3 | 22.0 | 23.0 | 22.2 | 22.2 | 29.0 | 27.1 | 19.1 | 20.8 | 18.0 | 21.0 | 24.0 | 18.1 | 19.0 | 22.0 | 21.5 | |
| June " (13 weeks) | 51.6 | 10.89 | 18.1 | 16.9 | 16.4 | 16.4 | 19.3 | 21.3 | 17.8 | 20.9 | 17.5 | 17.4 | 17.4 | 16.6 | 15.7 | 16.0 | 18.1 | 21.1 | 25.6 | 22.0 | 21.1 | 23.2 | 23.6 | 18.4 | 19.9 | 17.0 | 19.0 | 19.1 | 17.0 | 16.6 | 19.5 | 18.0 | |
| Sept. " (13 weeks) | 57.6 | 14.22 | 16.9 | 16.2 | 13.9 | 16.7 | 18.5 | 17.1 | 12.7 | 17.1 | 15.7 | 17.8 | 17.8 | 13.7 | 15.1 | 16.0 | 18.7 | 20.2 | 23.5 | 19.2 | 15.7 | 16.6 | 22.4 | 15.0 | 17.9 | 15.6 | 20.8 | 19.0 | 14.3 | 16.0 | 18.0 | 16.7 | |
| Dec. " (13 weeks) | 44.6 | 7.00 | 19.8 | 18.9 | 15.7 | 18.8 | 19.3 | 22.2 | 16.7 | 19.8 | 17.8 | 17.4 | 17.4 | 17.5 | 15.1 | 19.0 | 22.3 | 23.1 | 26.2 | 21.1 | 22.1 | 26.9 | 22.6 | 21.6 | 18.8 | 17.9 | 22.0 | 20.1 | 16.3 | 20.7 | 22.7 | 25.6 | |
| 1 | Jan. | 40.2 | 4.56 | 23.8 | 22.8 | 14.8 | 28.4 | 28.3 | 40.3 | 23.3 | 31.9 | 19.5 | 24.2 | 21.2 | 20.6 | 24.0 | 25.1 | 27.6 | 32.6 | 25.1 | 24.9 | 28.5 | 29.3 | 18.8 | 25.4 | 17.7 | 23.9 | 26.4 | 19.9 | 20.6 | 24.9 | 25.0 | |
| 2 | " | 38.1 | 3.30 | 23.3 | 23.6 | 18.3 | 20.6 | 29.8 | 38.2 | 24.2 | 28.7 | 24.6 | 15.3 | 15.3 | 17.9 | 17.7 | 21.0 | 23.9 | 34.9 | 21.0 | 23.3 | 27.6 | 25.8 | 19.4 | 18.9 | 21.8 | 23.1 | 25.3 | 18.3 | 14.2 | 22.6 | 24.9 | |
| 3 | " | 24.7 | 1.50 | 23.0 | 24.4 | 17.3 | 20.6 | 35.5 | 18.2 | 23.6 | 21.1 | 19.2 | 25.3 | 20.1 | 20.0 | 21.0 | 24.4 | 26.8 | 21.7 | 18.3 | 25.1 | 23.7 | 20.0 | 24.7 | 10.3 | 19.2 | 25.0 | 18.1 | 20.2 | 21.3 | 23.1 | | |
| 4 | " | 40.7 | 4.83 | 22.5 | 14.3 | 17.9 | 20.0 | 22.8 | 27.0 | 31.3 | 23.3 | 21.7 | 21.0 | 15.2 | 25.3 | 21.1 | 22.5 | 31.9 | 19.6 | 20.8 | 20.4 | 27.8 | 18.8 | 20.2 | 13.9 | 22.1 | 26.4 | 20.6 | 20.2 | 21.7 | 22.1 | | |
| 5 | Feb. | 33.7 | 0.04 | 23.1 | 24.8 | 24.3 | 24.5 | 32.2 | 21.9 | 25.5 | 17.0 | 21.3 | 18.8 | 22.2 | 18.2 | 18.4 | 17.9 | 27.3 | 21.9 | 21.1 | 25.0 | 31.8 | 22.8 | 20.8 | 13.4 | 19.5 | 22.1 | 18.1 | 20.2 | 20.3 | 21.6 | | |
| 6 | " | 43.6 | 6.44 | 22.2 | 16.2 | 25.4 | 24.5 | 38.9 | 17.7 | 28.1 | 20.0 | 19.9 | 22.6 | 16.8 | 17.7 | 22.8 | 18.9 | 28.2 | 21.9 | 21.2 | 25.0 | 36.4 | 17.7 | 17.6 | 23.8 | 19.2 | 24.3 | 17.8 | 17.4 | 24.0 | 23.1 | | |
| 7 | " | 34.1 | 1.37 | 26.6 | 20.6 | 23.0 | 19.8 | 26.7 | 34.2 | 29.4 | 20.3 | 19.2 | 17.8 | 16.3 | 14.1 | 21.0 | 17.5 | 20.3 | 21.2 | 25.3 | 25.3 | 16.6 | 22.8 | 15.1 | 22.2 | 24.7 | 16.5 | 14.2 | 20.0 | 15.4 | 15.4 | | |
| 8 | " | 29.8 | -1.22 | 21.6 | 20.0 | 24.7 | 16.7 | 32.2 | 19.1 | 21.1 | 20.7 | 18.5 | 24.4 | 15.7 | 24.0 | 22.7 | 18.9 | 25.4 | 26.5 | 18.5 | 28.5 | 21.2 | 20.0 | 18.2 | 17.0 | 18.6 | 25.0 | 16.8 | 23.7 | 23.3 | 13.0 | | |
| 9 | March | 31.5 | -0.28 | 21.5 | 19.9 | 23.2 | 20.1 | 31.5 | 19.4 | 22.3 | 18.9 | 24.2 | 20.1 | 25.5 | 18.2 | 29.5 | 17.5 | 25.7 | 18.0 | 24.2 | 34.2 | 25.3 | 16.6 | 23.4 | 14.3 | 19.0 | 21.7 | 19.3 | 13.4 | 23.6 | 25.5 | | |
| 10 | " | 37.6 | 5.89 | 23.3 | 23.0 | 16.1 | 25.4 | 28.2 | 18.9 | 24.9 | 22.1 | 24.3 | 20.3 | 15.2 | 22.4 | 27.1 | 18.9 | 21.3 | 25.8 | 27.0 | 34.7 | 22.2 | 18.8 | 17.0 | 17.7 | 22.6 | 25.5 | 20.4 | 17.1 | 18.1 | 25.1 | | |
| 11 | " | 39.9 | 9.80 | 31.3 | 13.5 | 20.4 | 20.2 | 26.2 | 26.2 | 26.3 | 17.1 | 19.8 | 19.7 | 17.9 | 20.9 | 30.1 | 24.4 | 24.7 | 23.1 | 21.3 | 31.6 | 27.3 | 18.8 | 24.1 | 22.7 | 24.3 | 21.2 | 15.3 | 22.2 | 20.0 | 27.1 | | |
| 12 | " | 34.7 | 1.50 | 21.0 | 20.2 | 19.6 | 20.1 | 37.6 | 18.1 | 19.8 | 18.9 | 25.8 | 21.7 | 23.8 | 24.0 | 25.4 | 25.0 | 23.0 | 21.2 | 21.1 | 23.1 | 26.3 | 14.8 | 16.3 | 16.4 | 21.3 | 22.7 | 16.8 | 16.2 | 22.0 | 15.4 | | |
| 13 | " | 40.0 | 4.44 | 21.5 | 20.3 | 19.1 | 22.1 | 22.3 | 25.5 | 19.1 | 21.1 | 19.5 | 21.3 | 21.7 | 21.7 | 15.1 | 22.4 | 31.3 | 26.4 | 25.4 | 21.5 | 33.3 | 33.4 | 22.8 | 21.3 | 21.3 | 22.3 | 21.2 | 17.8 | 23.7 | 25.6 | 13.3 | |

| | | | | | | | | | | | | | | | | | | | | | | | | | | |
|----|---------|----|------|-------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|
| 14 | April | 7 | 37.1 | 2.83 | 21.9 | 14.8 | 19.4 | 18.9 | 23.5 | 22.9 | 17.0 | 18.5 | 19.2 | 15.1 | 13.6 | 18.8 | 19.3 | 22.1 | 23.7 | 19.6 | 28.1 | 28.1 | 18.3 | 15.0 | 18.1 | 22.6 |
| 15 | " | 14 | 42.2 | 5.67 | 21.9 | 20.6 | 14.8 | 19.4 | 23.5 | 22.9 | 17.0 | 18.5 | 19.2 | 15.1 | 13.6 | 18.8 | 19.3 | 22.1 | 23.7 | 19.6 | 28.1 | 28.1 | 18.3 | 15.0 | 18.1 | 22.6 |
| 16 | " | 21 | 48.5 | 7.19 | 19.9 | 18.9 | 15.7 | 20.9 | 18.7 | 20.6 | 21.2 | 21.1 | 21.3 | 17.8 | 18.8 | 15.7 | 19.8 | 19.7 | 19.8 | 23.9 | 20.5 | 20.1 | 23.4 | 23.2 | 16.5 | 16.2 |
| 17 | " | 28 | 49.7 | 6.50 | 18.9 | 17.5 | 16.1 | 18.7 | 19.5 | 18.8 | 17.3 | 17.1 | 23.5 | 18.3 | 17.3 | 20.9 | 21.3 | 14.7 | 24.8 | 21.0 | 22.7 | 23.9 | 22.2 | 20.0 | 14.7 | 18.2 |
| 18 | " | " | " | " | " | " | " | " | " | " | " | " | " | " | " | " | " | " | " | " | " | " | " | " | " | " |
| 19 | May | 5 | 49.0 | 9.44 | 18.7 | 17.4 | 17.8 | 18.7 | 21.2 | 24.8 | 18.9 | 21.7 | 18.6 | 19.0 | 16.0 | 18.4 | 15.1 | 17.5 | 23.9 | 27.6 | 28.1 | 29.6 | 23.3 | 18.3 | 15.8 | 22.0 |
| 20 | " | 12 | 52.3 | 11.28 | 17.6 | 16.6 | 14.8 | 18.3 | 19.5 | 21.5 | 18.9 | 23.6 | 15.7 | 18.5 | 19.2 | 14.1 | 18.8 | 17.2 | 26.7 | 21.9 | 19.6 | 19.8 | 21.7 | 17.0 | 14.8 | 19.1 |
| 21 | " | 19 | 55.9 | 13.28 | 18.9 | 17.9 | 19.3 | 19.5 | 20.8 | 17.7 | 17.3 | 23.7 | 18.9 | 15.3 | 14.2 | 15.7 | 10.9 | 16.6 | 21.6 | 24.8 | 22.8 | 22.7 | 19.7 | 17.2 | 17.0 | 18.6 |
| 22 | " | 26 | 54.0 | 12.22 | 17.8 | 16.6 | 22.2 | 17.3 | 17.3 | 17.3 | 17.3 | 17.3 | 17.1 | 16.4 | 13.3 | 15.7 | 10.9 | 16.6 | 21.6 | 24.8 | 22.8 | 22.7 | 19.7 | 17.2 | 17.0 | 18.6 |
| 23 | June | 2 | 55.8 | 13.22 | 17.6 | 16.1 | 14.3 | 18.7 | 19.5 | 18.1 | 15.2 | 24.9 | 17.9 | 16.0 | 18.3 | 13.6 | 14.6 | 19.2 | 15.2 | 25.7 | 17.1 | 19.6 | 24.6 | 23.3 | 18.3 | 15.8 |
| 24 | " | 9 | 58.9 | 14.94 | 16.2 | 14.9 | 15.7 | 17.0 | 22.3 | 15.4 | 14.8 | 24.6 | 17.9 | 16.0 | 18.3 | 13.6 | 14.6 | 19.2 | 15.2 | 25.7 | 17.1 | 19.6 | 24.6 | 23.3 | 18.3 | 15.8 |
| 25 | " | 16 | 57.1 | 13.93 | 16.2 | 14.2 | 16.6 | 18.1 | 19.1 | 17.1 | 17.0 | 24.6 | 17.9 | 16.0 | 18.3 | 13.6 | 14.6 | 19.2 | 15.2 | 25.7 | 17.1 | 19.6 | 24.6 | 23.3 | 18.3 | 15.8 |
| 26 | " | 23 | 54.2 | 12.33 | 15.5 | 14.2 | 15.7 | 17.6 | 22.8 | 23.5 | 15.4 | 16.6 | 14.8 | 17.8 | 9.9 | 14.1 | 10.0 | 16.0 | 23.4 | 22.5 | 21.4 | 18.1 | 18.9 | 24.3 | 16.6 | 16.3 |
| 27 | " | 30 | 61.9 | 16.61 | 15.9 | 15.1 | 10.4 | 15.3 | 15.0 | 20.1 | 13.8 | 15.0 | 14.2 | 15.3 | 15.1 | 15.2 | 17.2 | 16.1 | 20.7 | 21.2 | 26.0 | 15.9 | 14.5 | 27.8 | 12.6 | 13.4 |
| 28 | " | " | " | " | " | " | " | " | " | " | " | " | " | " | " | " | " | " | " | " | " | " | " | " | " | " |
| 29 | July | 7 | 56.4 | 13.56 | 15.0 | 14.8 | 9.1 | 12.7 | 17.8 | 17.5 | 12.9 | 18.8 | 15.4 | 11.4 | 9.9 | 10.0 | 11.5 | 15.8 | 18.9 | 17.4 | 15.9 | 17.4 | 13.6 | 22.2 | 12.0 | 13.4 |
| 30 | " | 14 | 55.8 | 13.22 | 15.7 | 15.7 | 11.7 | 17.8 | 18.3 | 13.7 | 13.3 | 14.8 | 15.6 | 13.3 | 14.1 | 11.6 | 16.8 | 18.8 | 28.5 | 23.7 | 14.3 | 17.7 | 11.4 | 15.7 | 10.8 | 13.0 |
| 31 | " | 21 | 59.4 | 15.22 | 16.0 | 15.8 | 12.9 | 16.1 | 15.6 | 14.8 | 10.6 | 18.8 | 16.1 | 14.9 | 13.7 | 13.6 | 15.3 | 13.6 | 18.9 | 21.1 | 19.4 | 18.9 | 18.2 | 20.1 | 13.7 | 16.3 |
| 32 | " | 28 | 60.3 | 15.72 | 15.8 | 15.9 | 8.3 | 16.4 | 12.8 | 14.8 | 13.6 | 16.0 | 13.2 | 12.4 | 12.0 | 8.1 | 13.6 | 17.1 | 20.1 | 20.3 | 16.4 | 16.2 | 16.7 | 14.1 | 22.3 | 24.7 |
| 33 | August | 4 | 56.9 | 13.83 | 16.0 | 15.9 | 10.0 | 14.0 | 13.4 | 16.8 | 9.0 | 16.2 | 15.8 | 12.1 | 13.7 | 13.0 | 17.2 | 18.6 | 18.2 | 19.7 | 18.0 | 15.9 | 18.2 | 19.7 | 20.0 | 18.2 |
| 34 | " | 11 | 63.9 | 17.76 | 17.6 | 18.0 | 14.3 | 12.0 | 13.9 | 23.3 | 13.4 | 16.2 | 16.4 | 16.0 | 16.3 | 9.2 | 19.3 | 19.0 | 14.4 | 23.8 | 18.9 | 14.7 | 15.8 | 14.7 | 13.1 | 19.4 |
| 35 | " | 18 | 56.4 | 13.56 | 16.4 | 17.2 | 16.1 | 12.3 | 17.3 | 17.3 | 17.3 | 17.3 | 17.3 | 17.3 | 17.3 | 17.3 | 17.3 | 17.3 | 17.3 | 17.3 | 17.3 | 17.3 | 17.3 | 17.3 | 17.3 | 17.3 |
| 36 | " | 25 | 60.0 | 15.56 | 18.1 | 17.2 | 13.0 | 17.9 | 19.5 | 17.5 | 11.5 | 25.7 | 13.4 | 27.4 | 15.4 | 13.0 | 13.6 | 22.6 | 19.3 | 23.5 | 20.3 | 13.6 | 18.0 | 31.8 | 22.8 | 16.4 |
| 37 | " | 1 | 56.6 | 13.67 | 17.5 | 16.4 | 17.0 | 20.6 | 21.7 | 10.1 | 11.5 | 14.3 | 17.1 | 17.1 | 12.0 | 15.2 | 19.3 | 19.7 | 21.6 | 24.1 | 16.6 | 16.2 | 14.9 | 22.7 | 18.2 | 25.3 |
| 38 | Sept. | 8 | 57.1 | 13.94 | 17.8 | 16.2 | 13.9 | 14.2 | 13.7 | 19.3 | 12.7 | 13.3 | 17.8 | 22.8 | 15.1 | 15.7 | 19.8 | 18.6 | 20.6 | 24.8 | 18.3 | 21.5 | 16.1 | 24.4 | 20.6 | 15.5 |
| 39 | " | 15 | 54.5 | 12.90 | 17.7 | 16.2 | 23.0 | 13.0 | 36.2 | 18.8 | 14.3 | 15.7 | 16.5 | 16.6 | 19.8 | 19.9 | 21.1 | 25.7 | 25.8 | 25.8 | 13.2 | 17.5 | 27.8 | 18.4 | 24.2 | 18.1 |
| 40 | " | 22 | 57.3 | 14.00 | 18.0 | 13.8 | 13.9 | 22.8 | 16.8 | 18.1 | 11.1 | 14.1 | 15.7 | 22.8 | 14.5 | 19.6 | 19.8 | 18.4 | 23.0 | 27.6 | 25.1 | 13.7 | 17.5 | 27.8 | 18.4 | 24.2 |
| 41 | " | 29 | 55.8 | 13.22 | 18.3 | 16.0 | 21.3 | 21.2 | 17.5 | 15.2 | 13.8 | 15.1 | 19.6 | 15.4 | 19.0 | 16.2 | 19.7 | 27.1 | 28.4 | 25.6 | 15.5 | 20.6 | 32.3 | 13.7 | 14.3 | 16.3 |
| 42 | " | " | " | " | " | " | " | " | " | " | " | " | " | " | " | " | " | " | " | " | " | " | " | " | " | " |
| 43 | October | 6 | 49.7 | 5.94 | 18.2 | 16.5 | 17.0 | 20.9 | 17.8 | 22.8 | 14.1 | 13.4 | 15.0 | 18.1 | 13.1 | 19.0 | 24.0 | 19.7 | 27.6 | 29.6 | 19.8 | 19.8 | 12.8 | 24.1 | 23.7 | 14.3 |
| 44 | " | 13 | 45.0 | 7.22 | 21.0 | 18.7 | 17.8 | 22.8 | 13.9 | 23.3 | 16.8 | 18.8 | 16.2 | 16.0 | 19.4 | 20.1 | 18.8 | 21.4 | 28.0 | 35.7 | 26.8 | 24.2 | 22.1 | 23.7 | 28.5 | 20.2 |
| 45 | " | 20 | 49.2 | 6.33 | 21.0 | 20.0 | 14.1 | 20.6 | 21.0 | 21.2 | 16.9 | 19.7 | 16.0 | 19.4 | 20.1 | 19.7 | 17.7 | 22.8 | 21.6 | 32.8 | 24.4 | 25.3 | 25.4 | 25.8 | 18.1 | 17.6 |
| 46 | " | 27 | 43.2 | 9.56 | 18.6 | 21.2 | 16.3 | 21.2 | 16.7 | 22.2 | 17.1 | 19.3 | 16.0 | 21.0 | 15.7 | 17.7 | 22.8 | 21.6 | 32.8 | 24.4 | 25.3 | 25.4 | 25.8 | 18.1 | 17.6 | 16.7 |
| 47 | " | " | " | " | " | " | " | " | " | " | " | " | " | " | " | " | " | " | " | " | " | " | " | " | " | " |
| 48 | Nov. | 3 | 50.3 | 9.17 | 19.6 | 19.7 | 10.0 | 19.8 | 23.4 | 14.1 | 19.6 | 17.2 | 18.6 | 19.0 | 14.0 | 13.0 | 11.5 | 19.1 | 24.8 | 34.7 | 25.3 | 25.2 | 25.3 | 25.2 | 25.2 | 17.0 |
| 49 | " | 10 | 49.1 | 5.61 | 19.0 | 18.5 | 15.2 | 19.1 | 23.4 | 17.5 | 18.7 | 14.6 | 14.6 | 16.3 | 20.6 | 19.8 | 21.1 | 25.3 | 25.3 | 25.3 | 25.3 | 25.3 | 25.3 | 25.3 | 25.3 | 25.3 |
| 50 | " | 17 | 50.5 | 10.28 | 19.7 | 17.7 | 12.6 | 17.2 | 17.8 | 22.8 | 14.1 | 24.3 | 16.1 | 16.3 | 13.2 | 17.2 | 19.8 | 23.2 | 18.9 | 24.7 | 18.0 | 22.3 | 26.0 | 19.7 | 20.1 | 16.1 |
| 51 | " | 24 | 49.0 | 9.44 | 18.2 | 17.2 | 16.3 | 21.2 | 17.8 | 19.6 | 16.8 | 14.0 | 13.7 | 13.2 | 17.2 | 19.8 | 25.2 | 20.3 | 22.7 | 28.9 | 21.2 | 17.1 | 24.7 | 19.1 | 21.8 | 16.2 |
| 52 | " | " | " | " | " | " | " | " | " | " | " | " | " | " | " | " | " | " | " | " | " | " | " | " | " | " |
| 53 | Dec. | 1 | 45.7 | 7.01 | 17.8 | 16.5 | 13.5 | 14.2 | 16.2 | 19.5 | 18.2 | 16.6 | 18.1 | 19.2 | 13.8 | 19.3 | 19.3 | 23.5 | 23.0 | 21.2 | 14.8 | 25.7 | 26.7 | 18.2 | 18.3 | 21.5 |
| 54 | " | 8 | 49.1 | 9.50 | 18.6 | 17.8 | 20.0 | 16.1 | 19.3 | 17.4 | 16.6 | 19.2 | 16.6 | 19.2 | 13.0 | 23.6 | 23.0 | 21.8 | 18.0 | 23.2 | 26.3 | 18.7 | 18.8 | 18.2 | 16.6 | 16.0 |
| 55 | " | 15 | 48.3 | 0.73 | 18.9 | 17.7 | 13.7 | 17.8 | 14.4 | 17.5 | 15.2 | 16.7 | 16.7 | 16.7 | 17.2 | 23.5 | 24.0 | 18.4 | 18.0 | 21.1 | 18.0 | 21.1 | 18.0 | 21.1 | 18.0 | 21.1 |
| 56 | " | 22 | 44.1 | 4.67 | 20.2 | 20.0 | 13.7 | 17.7 | 24.0 | 24.2 | 13.2 | 23.8 | 22.0 | 23.5 | 21.9 | 20.9 | 26.0 | 19.3 | 25.0 | 23.3 | 23.0 | 23.9 | 24.3 | 20.5 | 11.7 | 19.9 |
| 57 | " | 29 | 42.5 | 5.83 | 20.8 | 20.0 | 16.3 | 19.1 | 15.6 | 31.6 | 12.9 | 25.7 | 15.7 | 17.1 | 16.7 | 12.5 | 20.3 | 24.9 | 23.9 | 25.1 | 22.4 | 24.5 | 24.8 | 24.3 | 12.9 | 22.5 |
| 58 | " | " | " | " | " | " | " | " | " | " | " | " | " | " | " | " | " | " | " | " | " | " | " | " | " | " |
| 59 | " | " | " | " | " | " | " | " | " | " | " | " | " | " | " | " | " | " | " | " | " | " | " | " | " | " |
| 60 | " | " | " | " | " | " | " | " | " | " | " | " | " | " | " | " | " | " | " | " | " | " | " | " | " | " |
| 61 | " | " | " | " | " | " | " | " | " | " | " | " | " | " | " | " | " | " | " | " | " | " | " | " | " | " |
| 62 | " | " | " | " | " | " | " | " | " | " | " | " | " | " | " | " | " | " | " | " | " | " | " | " | " | " |

* See note (+) to Table 1.

Foreign Cities : Greater London.

TABLE 5.—Births and Deaths in 1888 in **Edinburgh, Glasgow, Dublin, and in 32 Colonial and Foreign Cities.**

| CITIES. | POPULATION (enumerated or estimated). | BIRTHS. (Excluding Stillborn.) | DEATHS. | ANNUAL RATE per 1000 Persons living. | | DEATHS FROM SOME ZYMOTIC DISEASES. | | | | | | | |
|---------------------|--|---------------------------------------|---------|--|---------|------------------------------------|----------|-------------------|------------------|----------------------|--------|-------------------------|--|
| | | | | Births. | Deaths. | Small-pox. | Measles. | Scarlet Fever. | Diphthe- ria. | Whoop- ing-cough. | Fever. | Diarrhoeal Diseases. | |
| EDINBURGH - - | 262,733 | 7458 | 4700 | 28·5 | 18·0 | - | 100 | 19 | 70 | 71 | 38 | 23 | |
| GLASGOW - - - | 526,088 | 19213 | 11594 | 36·6 | 22·1 | - | 218 | 162 | 163 | 431 | 102 | 271 | |
| DUBLIN - - - | 353,082 | 9884 | 8894 | 28·1 | 25·3 | 1 | 90 | 170 | 32 | 273 | 224 | 212 | |
| CALCUTTA (46 weeks) | 433,219 | - | 9909 | - | 25·9 | 10 | 52 | - | 19 | 39 | 1238 | 2377 | |
| BOMBAY - - - | 773,196 | 16679 | 22335 | 21·6 | 29·0 | 581 | 219 | ? | ? | ? | 6731 | 2061 | |
| MADRAS - - - | 398,777 | 15949 | 15015 | 40·1 | 37·8 | 37 | 47 | ? | ? | ? | 3347 | 3088 | |
| PARIS - - - | 2,260,945 | 60743 | 50954 | 27·0 | 22·6 | 257 | 896 | 188 | 1724* | 263 | 757 | 3958 | |
| BRUSSELS - - - | 462,060 | 13329 | 9730 | 28·9 | 21·1 | 4 | 164 | 8 | 44 | 63 | 96 | 1088 | |
| AMSTERDAM - - | 390,016 | 14262 | 8562 | 36·7 | 22·0 | - | 131 | 13 | 139 | 219 | 58 | - | |
| ROTTERDAM - - | 193,658 | 7115 | 4122 | 36·9 | 21·4 | - | 17 | 7 | 6 | 78 | 12 | 44 | |
| THE HAGUE - - | 149,477 | 5403 | 3050 | 36·3 | 20·5 | - | 34 | 5 | 2 | 48 | 4 | 28 | |
| COPENHAGEN - - | 300,000 | 16495 | 6475 | 35·4 | 21·8 | - | 36 | 170 | 334* | 116 | 38 | 470 | |
| STOCKHOLM - - | 221,549 | 7287 | 4381 | 33·0 | 19·8 | - | 28 | 163 | 120* | 102 | 35 | 492 | |
| CHRISTIANIA - - | 135,600 | 3547 | 3007 | 26·2 | 22·3 | - | 167 | 44 | 356* | 44 | 7 | 231 | |
| ST. PETERSBURG - | 842,883 | - | 29071 | - | 34·6 | 61 | 1068 | 561 | 503 | 168 | 917 | 4302 | |
| MOSCOW - - - | 753,469 | - | 27696 | - | 36·8 | 23 | 215 | 389 | 621 | 160 | 273 | 6076 | |
| BERLIN - - - | 1,439,617 | 48028 | 29298 | 33·4 | 20·3 | 4 | 354 | 201 | 1618 | 389 | 188 | 3956 | |
| HAMBURG (State) | 550,694 | 19114 | 13655 | 34·8 | 24·9 | - | 579 | 74 | 493* | 139 | 207 | 1127 | |
| DRESDEN - - - | 259,142 | 8203 | 5343 | 31·8 | 20·7 | ? | 47 | 31 | 262* | ? | 26 | 448 | |
| BRESLAU - - - | 313,451 | 11147 | 8576 | 35·7 | 27·5 | - | 12 | 43 | 441 | 41 | 46 | 1008 | |
| MUNICH - - - | 275,000 | 9873 | 8189 | 36·0 | 29·9 | 2 | 81 | 121 | 261* | 86 | 31 | 1534 | |
| VIENNA - - - | 800,836 | 26683 | 20044 | 33·4 | 25·1 | 62 | 245 | 226 | 310 | 93 | 102 | 1428 | |
| PRAGUE - - - | 300,828 | - | 9558 | - | 31·9 | 745 | 328 | 132 | 314 | 55 | 180 | 261 | |
| BUDA-PESTH - - | 442,787 | 16447 | 13941 | 37·3 | 31·6 | 13 | 102 | 79 | 445* | 23 | 175 | 1788 | |
| TRIESTE - - - | 156,042 | - | 4573 | - | 29·4 | 239 | 4 | 18 | 108* | 38 | 13 | 286 | |
| ROME - - - | 391,188 | 11796 | 9832 | 30·3 | 25·2 | 77 | 118 | 27 | 112 | 51 | 533† | 896 | |
| TURIN - - - | 300,612 | 8615 | 7230 | 28·6 | 24·0 | 18 | 42 | 48 | 172 | 25 | 58 | 702 | |
| VENICE - - - | 150,363 | 4209 | 3707 | 28·1 | 24·7 | 3 | 21 | - | 17* | - | 43 | 441 | |
| CAIRO - - - | 374,838 | 20281 | 18280 | 54·3 | 48·9 | 26 | 348 | 1 | 84* | 343 | 879 | 6947 | |
| ALEXANDRIA - - | 231,396 | 10323 | 8945 | 44·8 | 38·8 | 6 | 6 | 5 | 51* | 27 | 385 | 2491 | |
| NEW YORK - - - | 1,525,981 | - | 39971 | - | 26·3 | 81 | 531 | 1343 | 1928 | 569 | 365 | 3487 | |
| BROOKLYN - - - | 793,960 | - | 17954 | - | 22·7 | 13 | 57 | 473 | 971 | 192 | 150 | 1773 | |
| PHILADELPHIA - | 1,016,758 | - | 20372 | - | 20·1 | 80 | 24 | 235 | 350 | 140 | 785 | 1076 | |
| BALTIMORE - - - | 431,879 | - | 8936 | - | 20·8 | - | 176 | 44 | 98 | 112 | 188 | 967 | |
| BOSTON - - - | 415,000 | - | 10197 | - | 24·6 | 2 | 27 | 65 | 470 | 74 | 171 | 668 | |

* Including deaths from croup.

† Including 1537 deaths from cholera in Calcutta, 358 in Bombay, and 556 in Madras.

‡ Including 341 deaths from malarial fever.

TABLE 6.—LONDON.* Of the **3,316,483 Inhabitants** enumerated in 1881, the **Numbers of each Sex born in LONDON, and elsewhere.**

| | MALES. | | FEMALES. | | EXCESS OF FEMALES. | |
|--------------------------|-----------|-----------|-----------|-----------|--------------------|---------|
| | 1871. | 1881. | 1871. | 1881. | 1871. | 1881. |
| TOTAL INHABITANTS - - - | 1,523,151 | 1,797,486 | 1,731,109 | 2,018,997 | 207,958 | 221,511 |
| BORN IN LONDON - - - | 975,461 | 1,147,063 | 1,080,115 | 1,254,892 | 104,654 | 107,829 |
| BORN OUT OF LONDON - - - | 547,690 | 650,423 | 650,994 | 764,105 | 103,304 | 113,682 |

* This Table and Table 10 refer to London as constituted in 1881. The numbers therefore differ from those in other Tables in the Annual Summary, from which the hamlet of Motttingham is excluded. The enumerated Population of London in 1881 included 2,401,955 of both sexes born in London and 1,414,528 born elsewhere.

TABLE 7.—GREATER LONDON.—Area, Population, Inhabited Houses, and Rateable Value.

| | AREA (including Tidal Water)*. | | Enumerated POPULATION, 1881. | DENSITY OF POPULATION in 1881. | | INHABITED HOUSES, 1881. | RATEABLE VALUE,* | |
|------------------|--------------------------------|------------------|------------------------------|--------------------------------|---------------------------|-------------------------|------------------|--------------|
| | In Acres. | In Square Miles. | | Persons to an Acre. | Persons to a Square Mile. | | 1881. | 1888. |
| GREATER LONDON - | 448,334 | 701 | 4,766,661 | 10·6 | 6,500 | 645,695 | £ 32,854,916 | £ 38,563,511 |
| INNER LONDON - | 77,410 | 121 | 3,815,704 | 49·3 | 31,535 | 486,056 | 27,402,509 | 30,882,947 |
| OUTER RING - | 370,924 | 580 | 950,957 | 2·6 | 1,640 | 159,639 | 5,452,407 | 7,680,564 |

* Supplied from the Metropolitan Board of Works and Metropolitan Police Offices.

TABLE 8.—GREATER LONDON (THE METROPOLITAN AND CITY POLICE DISTRICTS).—Population; and Births and Deaths in the 52 Weeks of 1888.

| | POPULATION, estimated to the middle of 1888. | ANNUAL RATE per 1000 living. | | | TOTAL BIRTHS. | TOTAL DEATHS. | The DEATHS registered in the 52 Weeks include | | | | | | | | | | |
|---|--|------------------------------|---------|-----------------------------|---------------|---------------|---|------------------------------------|-------------|----------|----------------|-------------|-----------------|--------|------------|-------|--------------------------------|
| | | Births. | Deaths. | Principal Zymotic Diseases. | | | Deaths of | | Deaths from | | | | | | | | Deaths in Public Institutions. |
| | | | | | | | Infants under 1 Year of Age. | Persons aged 60 Years and upwards. | Small-pox. | Measles. | Scarlet Fever. | Diphtheria. | Whooping-cough. | Fever. | Diarrhoea. | | |
| GREATER LONDON } - | 5,527,886 | 31·1 | 17·8 | 2·40 | 171,451 | 98,116 | 24,036 | 23,272 | 10 | 2713 | 1389 | 1654 | 3891 | 894 | 2670 | 19864 | |
| REGISTRATION LONDON* } - | 4,282,921 | 30·7 | 18·5 | 2·53 | 131,080 | 78,848 | 19,196 | 18,340 | 9 | 2401 | 1209 | 1301 | 2987 | 729 | 2176 | 17728 | |
| OUTER RING† - | 1,244,965 | 32·5 | 15·0 | 1·95 | 40,371 | 19,268 | 4840 | 4032 | 1 | 312 | 180 | 353 | 904 | 174 | 494 | 2136 | |
| EPSOM (part of) - | 38,991 | 21·6 | 11·3 | 0·62 | 841 | 747 | 97 | 253 | - | 7 | - | - | 4 | - | 13 | 379 | |
| CRYSTAL PALACE and part of GODSTONE } - | 148,776 | 26·3 | 12·5 | 1·25 | 3904 | 1943 | 397 | 587 | - | 29 | 8 | 47 | 43 | 20 | 38 | 301 | |
| WIMBORNE (part of) - | 91,155 | 29·1 | 13·8 | 0·92 | 2642 | 1239 | 272 | 388 | - | 7 | 16 | 12 | 26 | 2 | 21 | 116 | |
| RICHMOND - - | 38,670 | 28·3 | 17·4 | 1·66 | 1092 | 659 | 158 | 194 | - | 9 | - | 1 | 28 | 3 | 23 | 87 | |
| WIMBORNE (part of) - | 62,223 | 28·9 | 11·4 | 1·13 | 1790 | 704 | 171 | 223 | - | 2 | 2 | 6 | 24 | 6 | 30 | 58 | |
| WIMBORNE - - - | 26,914 | 31·3 | 14·8 | 0·93 | 840 | 396 | 101 | 121 | - | 2 | 1 | 2 | 13 | 3 | 4 | 14 | |
| WIMBORNE - - - | 25,629 | 28·2 | 14·7 | 1·57 | 720 | 373 | 79 | 122 | - | 6 | 1 | 7 | 16 | 3 | 7 | 42 | |
| WIMBORNE - - - | 27,890 | 32·1 | 15·2 | 0·94 | 893 | 533 | 83 | 194 | - | 4 | 4 | 4 | 6 | 1 | 7 | 163 | |
| WIMBORNE - - - | 125,224 | 30·0 | 14·6 | 1·19 | 3740 | 1809 | 481 | 406 | - | 9 | 10 | 8 | 68 | 7 | 46 | 115 | |
| WIMBORNE and BUSHEY - | 74,714 | 29·4 | 19·5 | 2·86 | 2931 | 1442 | 421 | 329 | - | 45 | 17 | 24 | 71 | 11 | 45 | 93 | |
| BARNET and part of HATFIELD } - | 41,240 | 29·6 | 18·1 | 1·41 | 1216 | 742 | 123 | 242 | - | 3 | 3 | 4 | 40 | 1 | 7 | 234 | |
| WIMBORNE - - - | 190,909 | 36·6 | 15·7 | 3·09 | 6955 | 3159 | 814 | 744 | - | 67 | 44 | 87 | 240 | 55 | 95 | 202 | |
| WIMBORNE HAM and part of CHIGWELL } - | 328,050 | 36·1 | 15·6 | 2·50 | 11824 | 5129 | 1515 | 945 | 1 | 118 | 68 | 135 | 296 | 53 | 148 | 306 | |
| WIMBORNE (part of) - | 23,672 | 41·7 | 16·7 | 3·14 | 983 | 393 | 128 | 94 | - | 4 | 6 | 16 | 29 | 9 | 10 | 26 | |

* See note (†) to Table 1.

† In calculating the rates of mortality for the OUTER RING and the districts constituting it, corrections have been made for the Middlesex County Lunatic Asylums situated in the Districts of Epsom, Uxbridge, and Barnet, and for the Surrey County Lunatic Asylum situated in the District of Croydon.

TABLE 9.—London.—Mortality in Five Groups of Districts, and Meteorology at Greenwich, 1840-1888.

| | | LONDON. | GROUPS OF DISTRICTS. | | | | | METEOROLOGY AT GREENWICH. | | | |
|---|--|--|----------------------|----------------|-------------------|------------------|----------------|---------------------------|--------------------------------|------|-----------|
| | | | WEST. | NORTH. | CENTRAL. | EAST. | SOUTH. | | | | |
| Area in Square Miles | | 121.0 | 16.8 | 21.0 | 8.5 | 9.3 | 70.4 | | | | |
| Decennial Increase of Population per Cent., 1871-81 | | 17.3 | 19.3 | 20.5 | -15.6 (decrease). | | 8.4 | 30.8 | | | |
| Enumerated Population, 1881 | | 3,815,704 | 669,533 | 905,917 | 582,238 | 692,738 | 1,265,148 | | | | |
| Density: Persons to an Acre to { 1841 1871 1881 | | 25 42 49 | 27 52 62 | 23 56 67 | 172 150 127 | 61 107 116 | 11 21 28 | | | | |
| | | MEAN RATE OF MORTALITY PER 1000 IN 49 YEARS. | | | | | | | MEANS IN 48 YEARS, 1841-88. | | |
| YEARS. | | | | | | | | ° | ° | ins. | miles. |
| 1840-1888 | | 23.3 | 21.8 | 22.0 | 25.1 | 25.4 | 23.2 | 49.3 | 81 | 24.5 | (39 yrs.) |
| | | MEANS IN PERIODS OF TEN YEARS. | | | | | | | MEANS IN PERIODS OF TEN YEARS. | | |
| | | | | | | | | ° | ° | ins. | miles. |
| 1811-50 | | 21.8 | 23.0 | 22.7 | 24.7 | 26.2 | 26.2 | 49.4 | 82 | 24.5 | |
| 1811-60 | | 22.7 | 22.6 | 22.2 | 24.4 | 25.1 | 24.4 | 49.0 | 81 | 24.4 | 10.0 |
| 1861-70 | | 24.4 | 22.7 | 23.6 | 26.5 | 28.9 | 23.4 | 49.6 | 81 | 24.9 | 10.8 |
| 1871-80 | | 22.5 | 20.8 | 21.9 | 24.9 | 25.0 | 21.9 | 49.2 | 81 | 26.4 | 11.6 |
| | | ANNUAL RATE OF MORTALITY PER 1000. | | | | | | | METEOROLOGY IN EACH YEAR. | | |
| | | | | | | | | ° | ° | ins. | miles. |
| 1840 | | 25.0 | 24.1 | 23.9 | 24.5 | 25.7 | 25.9 | — | — | — | — |
| 1841 | | 24.1 | 22.4 | 22.4 | 25.0 | 25.1 | 24.4 | 48.7 | 83 | 33.3 | — |
| 1842 | | 23.6 | 22.6 | 22.6 | 23.6 | 24.4 | 23.9 | 49.6 | 84 | 22.6 | — |
| 1843 | | 21.8 | 23.3 | 23.1 | 25.3 | 26.4 | 24.8 | 49.4 | 87 | 24.6 | — |
| 1844 | | 25.1 | 23.9 | 23.3 | 24.4 | 25.9 | 25.6 | 48.6 | 83 | 24.9 | — |
| 1845 | | 23.3 | 22.5 | 21.0 | 24.0 | 24.6 | 23.8 | 47.6 | 85 | 22.4 | — |
| 1846 | | 23.4 | 21.6 | 21.9 | 22.9 | 24.1 | 24.6 | 51.3 | 83 | 25.3 | — |
| 1847 | | 20.8 | 24.5 | 25.4 | 27.9 | 29.4 | 27.7 | 49.5 | 81 | 17.8 | — |
| 1848 | | 25.7 | 23.6 | 23.4 | 25.3 | 28.7 | 27.2 | 50.4 | 79 | 20.2 | — |
| 1849 | | 30.1 | 26.1 | 23.7 | 27.9 | 31.8 | 37.6 | 50.0 | 78 | 23.9 | — |
| 1850 | | 21.0 | 19.6 | 19.8 | 21.1 | 21.7 | 21.9 | 49.3 | 79 | 19.7 | 11.0 |
| 1851 | | 23.4 | 22.0 | 22.2 | 24.1 | 24.3 | 24.0 | 49.2 | 78 | 21.6 | 10.3 |
| 1852 | | 22.5 | 21.5 | 21.2 | 23.9 | 23.3 | 23.0 | 50.6 | 76 | 34.2 | 10.6 |
| 1853 | | 24.4 | 22.3 | 22.4 | 25.1 | 26.5 | 25.3 | 47.7 | 79 | 29.0 | 9.5 |
| 1854 | | 20.4 | 18.5 | 24.4 | 27.4 | 30.0 | 34.8 | 48.9 | 83 | 18.7 | 10.3 |
| 1855 | | 24.3 | 23.0 | 23.3 | 25.1 | 25.5 | 24.6 | 47.1 | 83 | 21.1 | 9.9 |
| 1856 | | 22.0 | 21.5 | 21.1 | 23.0 | 23.3 | 21.8 | 49.0 | 83 | 22.2 | 10.6 |
| 1857 | | 22.4 | 21.2 | 21.5 | 23.8 | 24.6 | 21.5 | 51.0 | 83 | 21.4 | 9.3 |
| 1858 | | 23.9 | 22.4 | 24.9 | 24.5 | 25.8 | 24.0 | 49.2 | 79 | 17.8 | 9.7 |
| 1859 | | 22.7 | 21.4 | 21.7 | 24.1 | 24.0 | 22.6 | 50.7 | 89 | 25.9 | 9.5 |
| 1860 | | 22.4 | 22.2 | 21.2 | 23.3 | 24.1 | 22.1 | 47.0 | 81 | 22.0 | 10.0 |
| 1861 | | 23.2 | 22.1 | 22.3 | 25.4 | 24.0 | 22.8 | 49.4 | 84 | 20.8 | 9.9 |
| 1862 | | 23.6 | 22.0 | 22.0 | 26.2 | 26.0 | 22.7 | 49.5 | 84 | 26.2 | 10.0 |
| 1863 | | 24.5 | 22.0 | 23.8 | 28.9 | 26.5 | 23.3 | 50.3 | 80 | 20.0 | 10.3 |
| 1864 | | 26.4 | 24.4 | 25.3 | 29.5 | 29.0 | 25.3 | 48.3 | 78 | 16.7 | 9.5 |
| 1865 | | 24.5 | 22.6 | 24.5 | 27.1 | 26.5 | 23.2 | 50.3 | 80 | 29.0 | 9.3 |
| 1866 | | 26.5 | 22.6 | 25.3 | 27.1 | 34.0 | 24.1 | 49.8 | 82 | 30.5 | 11.4 |
| 1867 | | 23.0 | 21.7 | 23.1 | 24.8 | 24.2 | 22.1 | 48.6 | 82 | 28.4 | 11.8 |
| 1868 | | 13.5 | 22.2 | 22.7 | 25.2 | 25.4 | 22.9 | 51.6 | 78 | 25.2 | 12.2 |
| 1869 | | 14.6 | 22.2 | 23.5 | 26.6 | 27.9 | 23.8 | 49.5 | 81 | 24.0 | 12.2 |
| 1870 | | 24.1 | 23.8 | 23.5 | 26.0 | 25.0 | 23.4 | 48.7 | 79 | 18.5 | 11.1 |
| 1871 | | 24.6 | 22.5 | 25.6 | 25.0 | 26.1 | 24.0 | 48.7 | 81 | 22.3 | 10.5 |
| 1872 | | 21.5 | 19.6 | 21.2 | 23.6 | 23.6 | 20.7 | 50.7 | 82 | 30.0 | 11.9 |
| 1873 | | 22.4 | 21.2 | 21.2 | 25.1 | 25.3 | 21.7 | 48.9 | 83 | 22.4 | 11.3 |
| 1874 | | 22.4 | 19.9 | 21.7 | 23.7 | 25.5 | 21.0 | 49.4 | 82 | 20.0 | 11.5 |
| 1875 | | 23.6 | 22.2 | 22.2 | 26.2 | 25.7 | 23.3 | 49.4 | 80 | 27.3 | 11.5 |
| 1876 | | 21.9 | 21.0 | 21.2 | 24.1 | 24.0 | 21.2 | 50.1 | 80 | 23.9 | 12.1 |
| 1877 | | 21.6 | 19.2 | 21.5 | 24.2 | 24.5 | 20.5 | 49.7 | 79 | 26.8 | 13.0 |
| 1878 | | 23.1 | 21.6 | 22.0 | 25.2 | 25.1 | 13.0 | 49.6 | 81 | 29.2 | 11.1 |
| 1879 | | 22.6 | 20.9 | 21.5 | 20.3 | 25.5 | 21.8 | 46.2 | 83 | 31.3 | 11.3 |
| 1880 | | 21.7 | 19.8 | 20.8 | 23.8 | 24.3 | 21.6 | 49.4 | 84 | 29.7 | 11.7 |
| 1881 | | 21.3 | 19.6 | 19.6 | 23.5 | 24.2 | 20.5 | 48.8 | 81 | 25.2 | 12.1 |
| 1882 | | 21.3 | 19.6 | 19.6 | 24.4 | 25.2 | 20.6 | 49.7 | 84 | 25.1 | 12.8 |
| 1883 | | 20.5 | 19.5 | 19.0 | 24.1 | 24.1 | 19.5 | 49.4 | 82 | 21.9 | 13.1 |
| 1884 | | 20.4 | 19.2 | 19.0 | 24.9 | 22.9 | 19.7 | 50.7 | 80 | 18.1 | 11.9 |
| 1885 | | 19.8 | 19.2 | 18.5 | 24.4 | 22.5 | 18.5 | 48.6 | 81 | 24.0 | 12.0 |
| 1886 | | 19.9 | 19.0 | 18.0 | 25.4 | 23.2 | 19.1 | 48.7 | 81 | 24.2 | 11.8 |
| 1887 | | 19.6 | 19.0 | 17.8 | 26.1 | 22.5 | 18.6 | 47.8 | 79 | 19.9 | 11.5 |
| 1888 | | 18.5 | 18.3 | 16.6 | 25.7 | 21.3 | 17.2 | 47.7 | 82 | 27.5 | 12.8 |

NOTE.—The populations upon which these rates of mortality have been calculated are deduced from the numbers enumerated at the five Censuses of 1841, 1851, 1861, 1871, and 1881. The deaths used for the 48 years 1840-87 are for the calendar years, while those for 1888 are the numbers registered in the 52 weeks ending 29th December 1888.

Hampstead and Lewisham did not form part of Registration London prior to 1847. Wandsworth was not included in Registration London until the commencement of 1844, but the facts for that district have been included, in calculating the rates in the above Table, for the years 1840-43. The hamlet of Mottingham was transferred from Lewisham District to the Outer Ring on 1st April 1887.

Certain changes affecting the West and Central groups of districts were made in the year 1863, but no corrections for these changes have been made in this Table for any year prior to 1861.

* Approximated to the results of Robinson's anemometer by reduction from Whewell's, up to 1859.

TABLE 10.—**LONDON***: Population at different **Ages**, as enumerated in **1851, 1861, 1871**, and **1881**, with the Numbers of **Males** and **Females** at the various **Ages** in **1881**.

| — | ALL AGES. | 0— | 5— | 10— | 15— | 20— | 25— | 35— | 45— | 55— | 65— | 75— | 85 & upwds. |
|---------|-----------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|--------|-------------|
| 1851 | 2,362,266 | 293,532 | 243,648 | 216,369 | 213,694 | 241,401 | 428,123 | 368,949 | 298,363 | 122,946 | 62,608 | 19,845 | 2,728 |
| 1861 | 2,903,989 | 362,206 | 300,259 | 244,840 | 259,155 | 277,380 | 476,802 | 396,417 | 246,918 | 149,503 | 74,039 | 23,721 | 3,141 |
| 1871 | 3,254,260 | 422,629 | 349,686 | 309,658 | 307,075 | 321,585 | 551,973 | 404,954 | 290,977 | 174,265 | 90,198 | 27,694 | 3,656 |
| 1881 | 3,816,483 | 497,944 | 419,740 | 366,111 | 368,628 | 385,236 | 641,265 | 471,131 | 320,530 | 205,921 | 103,815 | 32,982 | 4,980 |
| Males | 1,797,486 | 248,619 | 208,193 | 179,483 | 171,659 | 176,186 | 297,085 | 222,417 | 147,616 | 90,992 | 42,139 | 11,877 | 1,220 |
| Females | 2,018,997 | 248,425 | 211,547 | 186,628 | 196,969 | 209,050 | 344,180 | 248,714 | 172,914 | 114,929 | 61,676 | 21,105 | 2,860 |

* In England the proportion of Females to Males in the population in 1881 was as 105 to 100; in London it was as 112 to 100. These proportions exactly correspond with those that prevailed in 1871. See also note * to Table 6.

TABLE 11.—**LONDON***: Marriages, Births, and Deaths, **1874-1888**.

| YEARS. | 1874. | 1875. | 1876. | 1877. | 1878. | 1879. | 1880. | 1881. | 1882. | 1883. | 1884. | 1885. | 1886. | 1887. | 1888 (52 weeks). |
|--------------------------------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|------------------|
| MARRIAGES - - | 33,218 | 34,072 | 34,007 | 33,593 | 33,711 | 33,477 | 34,144 | 34,578 | 35,612 | 35,379 | 35,381 | 34,560 | 34,482 | 34,251 | 34,517 |
| BIRTHS - | | | | | | | | | | | | | | | |
| Persons | 121,950 | 123,266 | 127,444 | 128,002 | 129,765 | 131,542 | 133,310 | 132,904 | 133,309 | 134,503 | 135,431 | 132,952 | 134,339 | 133,369 | 131,080 |
| Males - | 62,072 | 62,782 | 63,058 | 65,477 | 66,241 | 66,445 | 67,985 | 67,556 | 67,958 | 68,449 | 69,103 | 67,924 | 68,507 | 67,599 | 66,629 |
| Females | 59,878 | 60,484 | 62,286 | 62,615 | 63,521 | 65,097 | 65,325 | 65,348 | 65,351 | 66,054 | 66,545 | 65,028 | 65,832 | 65,790 | 64,451 |
| DEATHS* - | | | | | | | | | | | | | | | |
| Persons | 76,809 | 82,069 | 77,762 | 77,543 | 84,298 | 83,964 | 81,957 | 81,431 | 83,015 | 81,108 | 82,333 | 80,946 | 82,682 | 82,449 | 78,848 |
| Males - | 39,263 | 42,118 | 40,126 | 40,947 | 43,100 | 42,920 | 42,038 | 41,742 | 42,141 | 41,713 | 42,529 | 41,265 | 42,252 | 42,205 | 40,237 |
| Females | 37,636 | 39,951 | 37,636 | 37,496 | 41,198 | 41,044 | 39,919 | 39,689 | 40,874 | 39,395 | 39,854 | 39,683 | 40,430 | 40,244 | 38,511 |
| EXCESS OF BIRTHS OVER DEATHS - | 45,051 | 41,197 | 49,682 | 50,549 | 45,467 | 47,678 | 51,333 | 51,473 | 50,294 | 53,395 | 53,268 | 52,006 | 51,637 | 50,910 | 52,232 |
| ANNUAL RATES PER 1000. | | | | | | | | | | | | | | | |
| Persons Married | 19.4 | 19.6 | 19.2 | 18.7 | 18.5 | 18.0 | 18.1 | 18.1 | 18.3 | 17.9 | 17.6 | 16.9 | 16.6 | 16.3 | 16.1 |
| Births - | 35.6 | 35.4 | 35.9 | 35.6 | 35.5 | 35.5 | 35.3 | 34.7 | 34.2 | 34.0 | 33.7 | 32.6 | 32.4 | 31.6 | 30.7 |
| Deaths* | 22.4 | 23.6 | 21.9 | 21.6 | 23.1 | 22.6 | 21.7 | 21.3 | 21.3 | 20.5 | 20.4 | 19.8 | 19.9 | 19.6 | 18.5 |

NOTE.—The figures in the above table, except those for 1888, relate to the calendar year ending 31st December. The figures for 1888 relate to the 52 weeks ending 29th December.

* See note (†) to Table 1.

TABLE 12.—LONDON. Population, and Zymotic and

| PERIOD AND YEAR. | ESTIMATED POPULATION. | DEATHS FROM PRINCIPAL ZYMOTIC DISEASES. | | | | | | | | | |
|------------------------|-----------------------|---|----------|----------------|-------------|-----------------|---------|----------------|---------------------------|------------------------|----------|
| | | Small-pox. | Measles. | Scarlet Fever. | Diphtheria. | Whooping-cough. | Typhus. | Enteric Fever. | Simple and defined Fever. | Diarrhoea and sentery. | Cholera. |
| Cols. - 1 | 2 | 3 | 4 | 5 | 6 | 7 | 8 | 9 | 10 | 11 | 12 |
| Period. | | | | | | | | | | | |
| 1838-40 (3 Years.) | 1,803,004 | 5,686 | 3,756 | 5,977 | | 4,313 | 7,159 | | | 1,475 | 111 |
| 1841-50 | 2,103,487 | 8,416 | 13,011 | 18,314 | | 18,079 | 20,890 | | | 16,926 | 15,588 |
| 1851-60 | 2,570,489 | 7,150 | 13,766 | 26,317 | | 22,497 | 22,597 | | | 26,362 | 12,886 |
| 1861-70 | 3,018,193 | 8,347 | 17,338 | 34,391 | 5,323 | 26,550 | 27,149 | | | 31,578 | 7,403 |
| 1871-80 | 3,513,843 | 15,539 | 17,947 | 21,247 | 4,319 | 28,728 | 1,887 | 8,536 | 2,379 | 33,108 | 1,328 |
| 1838 | 1,766,169 | 3817 | 588 | 1524 | | 2083 | 4078 | | | 498 | 15 |
| 1839 | 1,802,751 | 634 | 2036 | 2469 | | 1161 | 1819 | | | 455 | 36 |
| 1840 | 1,840,091 | 1235 | 1132 | 1954 | | 1069 | 1262 | | | 522 | 60 |
| 1841 | 1,878,205 | 1053 | 978 | 663 | | 2278 | 1151 | | | 543 | 28 |
| 1842 | 1,917,108 | 360 | 1293 | 1224 | | 1603 | 1184 | | | 855 | 118 |
| 1843 | 1,954,041 | 438 | 1442 | 1867 | | 1908 | 2094 | | | 1005 | 85 |
| 1844 | 2,038,816 | 1804 | 1182 | 3029 | | 1292 | 1721 | | | 831 | 65 |
| 1845 | 2,073,298 | 909 | 2318 | 1085 | | 1816 | 1324 | | | 940 | 43 |
| 1846 | 2,113,535 | 257 | 747 | 928 | | 2035 | 1838 | | | 2305 | 228 |
| 1847 | 2,202,673 | 955 | 1778 | 1433 | | 1600 | 3297 | | | 2283 | 117 |
| 1848 | 2,244,837 | 1620 | 1144 | 4767 | | 1630 | 3685 | | | 2247 | 652 |
| 1849 | 2,287,302 | 521 | 1154 | 2149 | | 2349 | 2564 | | | 3837 | 14,125 |
| 1850 | 2,330,054 | 499 | 980 | 1169 | | 1568 | 2032 | | | 2077 | 127 |
| 1851 | 2,373,081 | 1062 | 1297 | 1285 | | 2185 | 2374 | | | 2755 | 213 |
| 1852 | 2,416,367 | 1159 | 595 | 2571 | | 1569 | 2183 | | | 2513 | 162 |
| 1853 | 2,459,899 | 211 | 978 | 2016 | | 2667 | 2617 | | | 2649 | 883 |
| 1854 | 2,503,662 | 694 | 1409 | 3477 | | 2502 | 2816 | | | 3325 | 10,738 |
| 1855 | 2,547,639 | 1039 | 878 | 2611 | | 2438 | 2460 | | | 2190 | 149 |
| 1856 | 2,591,815 | 531 | 1479 | 1819 | | 2092 | 2717 | | | 2414 | 152 |
| 1857 | 2,636,174 | 156 | 1341 | 1599 | | 2527 | 2195 | | | 3298 | 214 |
| 1858 | 2,680,700 | 242 | 2369 | 4184 | | 2708 | 1919 | | | 2220 | 131 |
| 1859 | 2,725,374 | 1158 | 1330 | 3481 | 773 | 1742 | 1840 | | | 3513 | 193 |
| 1860 | 2,770,181 | 898 | 2090 | 2017 | 484 | 2067 | 1476 | | | 1485 | 51 |
| 1861 | 2,815,101 | 217 | 1062 | 2381 | 674 | 3548 | 1848 | | | 2740 | 168 |
| 1862 | 2,860,117 | 366 | 2334 | 3492 | 730 | 2168 | 3673 | | | 1839 | 106 |
| 1863 | 2,905,210 | 1996 | 1634 | 4955 | 799 | 2175 | 2871 | | | 2492 | 159 |
| 1864 | 2,950,361 | 547 | 2788 | 3244 | 611 | 2423 | 3782 | | | 3013 | 156 |
| 1865 | 2,995,551 | 640 | 1290 | 2179 | 431 | 2935 | 3217 | | | 3721 | 196 |
| 1866 | 3,040,761 | 1391 | 2220 | 1892 | 462 | 2960 | 2688 | | | 3294 | 5596 |
| 1867 | 3,085,971 | 1345 | 1143 | 1451 | 447 | 2278 | 2184 | | | 3060 | 240 |
| 1868 | 3,131,160 | 597 | 1962 | 2916 | 495 | 2338 | 2468 | | | 4110 | 324 |
| 1869 | 3,176,398 | 275 | 1456 | 5341 | 340 | 3769 | 716 | 1069 | 615 | 3495 | 219 |
| 1870 | 3,221,394 | 973 | 1449 | 6040 | 334 | 1958 | 472 | 976 | 570 | 3814 | 239 |
| 1871 | 3,267,251 | 7912 | 1427 | 1902 | 314 | 2201 | 384 | 871 | 436 | 3968 | 221 |
| 1872 | 3,319,736 | 1786 | 1080 | 918 | 207 | 3259 | 174 | 807 | 322 | 3688 | 181 |
| 1873 | 3,373,095 | 113 | 2149 | 645 | 320 | 2620 | 277 | 908 | 325 | 3950 | 162 |
| 1874 | 3,427,250 | 67 | 1080 | 2448 | 419 | 1867 | 312 | 879 | 337 | 3261 | 123 |
| 1875 | 3,482,306 | 46 | 1408 | 3677 | 581 | 3204 | 128 | 817 | 272 | 3280 | 108 |
| 1876 | 3,538,246 | 736 | 1720 | 2308 | 387 | 2737 | 159 | 769 | 202 | 3585 | 138 |
| 1877 | 3,595,085 | 2551 | 2387 | 1580 | 316 | 1817 | 157 | 901 | 194 | 2421 | 88 |
| 1878 | 3,652,897 | 1417 | 1500 | 1808 | 566 | 4483 | 151 | 1633 | 197 | 3534 | 124 |
| 1879 | 3,711,517 | 450 | 2475 | 2661 | 675 | 2934 | 71 | 849 | 160 | 1894 | 53 |
| 1880 | 3,771,139 | 471 | 1521 | 3100 | 544 | 3516 | 74 | 702 | 134 | 3738 | 133 |
| 1881 | 3,831,719 | 2367 | 2586 | 2114 | 657 | 1973 | 92 | 971 | 134 | 3055 | 95 |
| 1882 | 3,893,272 | 430 | 2338 | 2006 | 857 | 4682 | 53 | 975 | 95 | 2144 | 79 |
| 1883 | 3,955,814 | 136 | 2441 | 2006 | 952 | 1598 | 55 | 963 | 102 | 2652 | 83 |
| 1884* | 4,019,361 | 1236 | 2271 | 1430 | 951 | 3156 | 32 | 925 | 78 | 3903 | 163 |
| 1885* | 4,083,928 | 1419 | 2909 | 722 | 904 | 2481 | 28 | 597 | 78 | 2723 | 77 |
| 1886* | 4,149,533 | 24 | 208 | 890 | 851 | 2871 | 13 | 618 | 73 | 3996 | 137 |
| 1887* | 4,215,192 | 9 | 2904 | 1443 | 953 | 2985 | 19 | 613 | 44 | 3801 | 107 |
| 1888* | 4,282,921 | 9 | 2401 | 1209 | 1301 | 2987 | 10 | 677 | 33 | 2176 | 54 |

NOTE.—Wandsworth was not included in Registration London until 1844, nor Lewisham and throughout, but the population in each year refers to the same

For the years 1838-50 the numbers of deaths from the various diseases are derived from summaries of to calendar years. The

Infant Mortality in 51 Years 1838-88.

| ANNUAL MORTALITY, TO 1,000 PERSONS LIVING, FROM PRINCIPAL ZYMOTIC DISEASES. | | | | | | | | | | Annual Mortality of Infants under One Year of Age to 1000 Births. | PERIOD AND YEAR. |
|--|----------|----------------|-------------|-----------------|---------|----------------|-------------------------------|--------------------------|----------|---|----------------------------------|
| Small-pox. | Measles. | Scarlet Fever. | Diphtheria. | Whooping-cough. | Typhus. | Enteric Fever. | Simple and Ill-defined Fever. | Diarrhoea and Dysentery. | Cholera. | | |
| 13 | 14 | 15 | 16 | 17 | 18 | 19 | 20 | 21 | 22 | 23 | 24 |
| 1'06 | 0'69 | 1'10 | | 0'80 | 1'34 | | | 0'27 | 0'02 | — | Period. 1838-40 (3 years.) |
| 0'40 | 0'62 | 0'86 | | 0'87 | 0'98 | | | 0'78 | 0'68 | 157 | 1841-50 |
| 0'28 | 0'53 | 1'02 | | 0'88 | 0'89 | | | 1'03 | 0'52 | 155 | 1851-60 |
| 0'28 | 0'58 | 1'13 | 0'13 | 0'88 | 0'91 | | | 1'04 | 0'24 | 162 | 1861-70 |
| 0'46 | 0'51 | 0'60 | 0'12 | 0'82 | 0'05 | 0'24 | 0'08 | 0'95 | 0'04 | 158 | 1871-80 |
| 2'17 | 0'33 | 0'87 | | 1'18 | 2'32 | | | 0'28 | 0'01 | — | 1838 |
| 0'35 | 1'13 | 1'39 | | 0'65 | 1'01 | | | 0'25 | 0'02 | — | 1839 |
| 0'67 | 0'62 | 1'07 | | 0'58 | 0'69 | | | 0'29 | 0'03 | — | 1840 |
| 0'56 | 0'52 | 0'35 | | 1'22 | 0'62 | | | 0'29 | 0'02 | 160 | 1841 |
| 0'19 | 0'68 | 0'64 | | 0'84 | 0'62 | | | 0'45 | 0'06 | 157 | 1842 |
| 0'23 | 0'74 | 0'96 | | 0'98 | 1'08 | | | 0'52 | 0'04 | 163 | 1843 |
| 0'89 | 0'58 | 1'49 | | 0'64 | 0'85 | | | 0'41 | 0'03 | 152 | 1844 |
| 0'44 | 1'12 | 0'53 | | 0'88 | 0'64 | | | 0'45 | 0'02 | 149 | 1845 |
| 0'12 | 0'36 | 0'44 | | 0'97 | 0'87 | | | 1'10 | 0'11 | 157 | 1846 |
| 0'43 | 0'80 | 0'64 | | 0'72 | 1'47 | | | 1'02 | 0'05 | 166 | 1847 |
| 0'72 | 0'51 | 2'18 | | 0'73 | 1'65 | | | 1'00 | 0'29 | 158 | 1848 |
| 0'23 | 0'51 | 0'94 | | 1'03 | 1'13 | | | 1'68 | 6'20 | 169 | 1849 |
| 0'21 | 0'42 | 0'50 | | 0'68 | 0'88 | | | 0'89 | 0'05 | 140 | 1850 |
| 0'45 | 0'55 | 0'54 | | 0'92 | 1'00 | | | 1'16 | 0'09 | 154 | 1851 |
| 0'48 | 0'25 | 1'06 | | 0'65 | 0'90 | | | 1'04 | 0'07 | 151 | 1852 |
| 0'09 | 0'40 | 0'82 | | 1'08 | 1'06 | | | 1'08 | 0'36 | 158 | 1853 |
| 0'28 | 0'56 | 1'39 | | 1'00 | 1'12 | | | 1'33 | 4'29 | 164 | 1854 |
| 0'41 | 0'35 | 1'02 | | 0'96 | 0'97 | | | 0'86 | 0'06 | 152 | 1855 |
| 0'20 | 0'57 | 0'70 | | 0'81 | 1'05 | | | 0'93 | 0'06 | 150 | 1856 |
| 0'06 | 0'51 | 0'61 | | 0'96 | 0'83 | | | 1'25 | 0'08 | 156 | 1857 |
| 0'09 | 0'88 | 1'56 | | 1'01 | 0'72 | | | 0'83 | 0'05 | 160 | 1858 |
| 0'43 | 0'49 | 1'28 | 0'28 | 0'64 | 0'68 | | | 1'29 | 0'07 | 150 | 1859 |
| 0'32 | 0'75 | 0'73 | 0'17 | 0'74 | 0'53 | | | 0'54 | 0'02 | 153 | 1860 |
| 0'08 | 0'38 | 0'85 | 0'24 | 1'26 | 0'66 | | | 0'97 | 0'06 | 155 | 1861 |
| 0'13 | 0'82 | 1'22 | 0'26 | 0'76 | 1'23 | | | 0'64 | 0'04 | 143 | 1862 |
| 0'69 | 0'56 | 1'71 | 0'28 | 0'75 | 0'99 | | | 0'86 | 0'05 | 151 | 1863 |
| 0'19 | 0'94 | 1'10 | 0'21 | 0'82 | 1'23 | | | 1'02 | 0'05 | 169 | 1864 |
| 0'21 | 0'43 | 0'73 | 0'14 | 0'98 | 1'07 | | | 1'24 | 0'07 | 171 | 1865 |
| 0'46 | 0'73 | 0'62 | 0'15 | 0'97 | 0'88 | | | 1'08 | 1'84 | 172 | 1866 |
| 0'44 | 0'37 | 0'47 | 0'15 | 0'74 | 0'71 | | | 0'99 | 0'08 | 159 | 1867 |
| 0'19 | 0'62 | 0'93 | 0'16 | 0'75 | 0'79 | | | 1'31 | 0'10 | 166 | 1868 |
| 0'09 | 0'46 | 1'84 | 0'11 | 1'19 | 0'23 | 0'34 | 0'19 | 1'10 | 0'07 | 170 | 1869 |
| 0'30 | 0'45 | 1'88 | 0'10 | 0'61 | 0'15 | 0'30 | 0'18 | 1'18 | 0'07 | 164 | 1870 |
| 2'42 | 0'44 | 0'58 | 0'11 | 0'70 | 0'12 | 0'27 | 0'13 | 1'21 | 0'07 | 171 | 1871 |
| 0'54 | 0'50 | 0'28 | 0'08 | 0'98 | 0'05 | 0'24 | 0'10 | 1'08 | 0'05 | 158 | 1872 |
| 0'03 | 0'64 | 0'19 | 0'09 | 0'78 | 0'08 | 0'27 | 0'10 | 1'17 | 0'05 | 160 | 1873 |
| 0'02 | 0'49 | 0'77 | 0'12 | 0'54 | 0'09 | 0'26 | 0'10 | 0'93 | 0'04 | 156 | 1874 |
| 0'01 | 0'40 | 1'06 | 0'17 | 0'92 | 0'04 | 0'23 | 0'08 | 0'94 | 0'03 | 162 | 1875 |
| 0'21 | 0'48 | 0'65 | 0'11 | 0'77 | 0'04 | 0'22 | 0'06 | 1'01 | 0'04 | 157 | 1876 |
| 0'71 | 0'66 | 0'44 | 0'09 | 0'51 | 0'04 | 0'25 | 0'05 | 0'67 | 0'02 | 146 | 1877 |
| 0'30 | 0'41 | 0'49 | 0'15 | 1'23 | 0'04 | 0'28 | 0'05 | 0'97 | 0'03 | 164 | 1878 |
| 0'12 | 0'67 | 0'72 | 0'15 | 0'79 | 0'02 | 0'23 | 0'04 | 0'51 | 0'01 | 148 | 1879 |
| 0'12 | 0'40 | 0'82 | 0'14 | 0'93 | 0'02 | 0'19 | 0'04 | 0'99 | 0'04 | 168 | 1880 |
| 0'62 | 0'66 | 0'55 | 0'17 | 0'51 | 0'02 | 0'25 | 0'03 | 0'80 | 0'02 | 148 | 1881 |
| 0'11 | 0'80 | 0'32 | 0'22 | 1'20 | 0'01 | 0'25 | 0'02 | 0'55 | 0'02 | 151 | 1882 |
| 0'03 | 0'62 | 0'51 | 0'24 | 0'40 | 0'01 | 0'24 | 0'03 | 0'67 | 0'02 | 146 | 1883 |
| 0'31 | 0'56 | 0'35 | 0'24 | 0'78 | 0'01 | 0'23 | 0'02 | 0'97 | 0'04 | 166 | 1884 |
| 0'35 | 0'71 | 0'18 | 0'22 | 0'61 | 0'01 | 0'15 | 0'02 | 0'67 | 0'02 | 148 | 1885 |
| 0'01 | 0'50 | 0'17 | 0'21 | 0'69 | 0'00 | 0'15 | 0'02 | 0'96 | 0'03 | 159 | 1886 |
| 0'00 | 0'89 | 0'34 | 0'23 | 0'70 | 0'00 | 0'13 | 0'01 | 0'90 | 0'03 | 158 | 1887 |
| 0'00 | 0'56 | 0'28 | 0'30 | 0'70 | 0'00 | 0'16 | 0'01 | 0'52 | 0'01 | 146 | 1888 |

Hampstead until 1847; thus the figures in the above Table do not relate to the same area as the facts in the various columns relating to Births and Deaths.

52 or 53 weeks; the numbers for the 37 years 1851-87 are derived from the Annual Reports; and relate figures for 1888 are for 52 weeks.

* See note (+) Table 1.

TABLE 13.—Causes of Deaths REGISTERED in London in each of the 11 Years 1878-1888, and in each Quarter of 1888.

| YEARS - - - - | 1878 | 1879 | 1880 | 1881 | 1882 | 1883 | 1884 | 1885 | 1886 | 1887 | 1888 | 1888. | | | |
|--|-------|-------|-------|-------|-----------------------|--------------------|-----------------------|-----------------------|-----------------|-----------------|-----------------|-----------------|---------------|---------------|-----------------|
| | | | | | | | | | | | | QUARTER ENDING | | | |
| | | | | | | | | | | | | Mar. 31 | June 30 | Sept. 29 | Dec. 29 |
| CAUSES OF DEATH. | Days. | Days. | Days. | Days. | Days. | Days. | Days. | Days. | Days. | Days. | Days. | Days. | Days. | Days. | Days. |
| ALL CAUSES - - | 83395 | 85540 | 81128 | 81071 | 82905 | 80573 | 80358 | 80504 | 82276 | 82208 | 78843 | 23424 | 18029 | 17257 | 20158 |
| Small-pox { Vaccinated - Unvaccinated - No statement } | 1416 | 458 | 475 | 2371 | { 108 184 139 } | { 42 55 37 } | { 380 417 454 } | { 393 503 502 } | { 9 8 7 } | { 1 1 7 } | { 5 1 4 } | { 1 - 3 } | { 1 - - | { 2 - - | { 1 - 1 } |
| Measles - - - | 1510 | 2488 | 1501 | 2533 | 2329 | 2420 | 2285 | 2928 | 2078 | 2894 | 2401 | 238 | 247 | 423 | 1488 |
| Scarlet Fever - - | 1792 | 2706 | 3073 | 2108 | 2004 | 1989 | 1444 | 707 | 638 | 1447 | 1209 | 415 | 235 | 238 | 321 |
| Typhus - - - | 150 | 70 | 72 | 96 | 52 | 56 | 31 | 28 | 13 | 18 | 10 | 4 | 1 | 2 | 8 |
| Relapsing Fever† | - | - | - | - | 1 | - | 1 | - | 1 | - | - | - | - | - | - |
| Influenza - - - | 9 | 9 | 11 | 8 | 6 | 11 | 6 | 3 | 5 | 5 | 3 | - | - | - | 8 |
| Whooping-cough - | 4446 | 3000 | 3438 | 1961 | 4647 | 1682 | 3188 | 2479 | 2834 | 2923 | 2987 | 1617 | 799 | 348 | 223 |
| Diphtheria - - - | 558 | 592 | 541 | 654 | 863 | 951 | 975 | 896 | 846 | 961 | 1301 | 314 | 254 | 278 | 460 |
| Simple & ill-defined Fever | 201 | 168 | 125 | 123 | 90 | 90 | 78 | 82 | 70 | 48 | 33 | 10 | 8 | 9 | 6 |
| Enteric Fever - - | 1010 | 861 | 689 | 977 | 975 | 935 | 936 | 585 | 618 | 606 | 677 | 229 | 141 | 123 | 184 |
| Simple Cholera - - | 123 | 54 | 134 | 95 | 79 | 83 | 163 | 79 | 137 | 106 | 54 | 1 | 7 | 42 | 4 |
| Diarrhoea, Dysentery | 3721 | 1936 | 3823 | 3053 | 2162 | 2644 | 3781 | 2657 | 3950 | 3773 | 2176 | 151 | 240 | 1489 | 316 |
| Remittent Fever† | - | - | - | - | 21 | 17 | 20 | 16 | 20 | 14 | 9 | 3 | 2 | 4 | - |
| Hydrophobia - - | 5 | 2 | 3 | 5 | 4 | 3 | 9 | 27 | 9 | 2 | 3 | - | - | 1 | 2 |
| Glanders - - - | 4 | 5 | 3 | 2 | 1 | 1 | - | 1 | 2 | 4 | 1 | - | 1 | - | - |
| Cowpox and Vaccination† | - | - | - | - | 14 | 12 | 12 | 7 | 4 | 9 | 4 | - | 2 | 1 | 1 |
| Venereal Affections - | 524 | 538 | 537 | 551 | 517 | 583 | 537 | 543 | 544 | 498 | 516 | 141 | 116 | 142 | 117 |
| Erysipelas - - - | 278 | 244 | 340 | 353 | 347 | 324 | 381 | 328 | 257 | 341 | 240 | 84 | 73 | 44 | 48 |
| Pyæmia Septicæmiæ† | - | - | - | - | 167 | 147 | 159 | 148 | 134 | 155 | 152 | 33 | 43 | 39 | 32 |
| Puerperal Fever - - | 195 | 194 | 268 | 332 | 287 | 307 | 327 | 323 | 279 | 328 | 275 | 133 | 63 | 38 | 41 |
| Other Zymotic Diseases† | - | - | - | - | 85 | 98 | 102 | 104 | 70 | 100 | 76 | 20 | 15 | 14 | 27 |
| Thrush - - - - - | 172 | 166 | 185 | 178 | 112 | 127 | 119 | 112 | 113 | 80 | 63 | 15 | 10 | 25 | 13 |
| Worms and other Para- sitical Diseases - - } | 26 | 17 | 32 | 23 | 26 | 17 | 17 | 17 | 18 | 22 | 14 | 2 | 5 | - | 7 |
| Starvation, Want of Breast Milk† | - | - | - | - | 127 | 99 | 87 | 92 | 91 | 77 | 61 | 14 | 15 | 19 | 13 |
| Alcoholism, Delirium Tre- mens - - - - - } | 202 | 215 | 164 | 198 | 226 | 283 | 243 | 180 | 220 | 248 | 298 | 72 | 85 | 64 | 77 |
| Rheumatic Fever, Rheu- matism of Heart - - } | 482 | 445 | 467 | 601 | { 338 180 } | { 384 145 } | { 444 140 } | { 416 129 } | { 362 104 } | { 418 115 } | { 397 108 } | 141 | 103 | 61 | 87 |
| Rheumatism - - - - } | - | - | - | - | 149 | 136 | 163 | 176 | 139 | 157 | 138 | 56 | 28 | 26 | 28 |
| Gout - - - - - | 135 | 187 | 189 | 162 | 113 | 166 | 190 | 170 | 218 | 180 | 230 | 52 | 62 | 52 | 64 |
| Rickets† - - - - - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - |
| Cancer - - - - - | 2066 | 2165 | 2229 | 2353 | 2442 | 2547 | 2823 | 2924 | 2688 | 2874 | 2856 | 655 | 774 | 694 | 733 |
| Tabes Mesenterica - | 1515 | 1468 | 1630 | 1384 | 1370 | 1421 | 1394 | 1374 | 1591 | 1406 | 1249 | 231 | 252 | 437 | 279 |
| Tubercular Meningitis | 1625 | 1618 | 1629 | 1569 | 1252 | 1420 | 1316 | 1325 | 1253 | 1245 | 1220 | 298 | 322 | 329 | 271 |
| Phthisis - - - - - | 8885 | 8800 | 8029 | 8312 | 8409 | 8917 | 8881 | 8872 | 8332 | 7740 | 7459 | 2027 | 1842 | 1624 | 1966 |
| Scrofula, Tuberculosis | 687 | 690 | 734 | 698 | 749 | 788 | 994 | 890 | 954 | 912 | 862 | 222 | 232 | 230 | 178 |
| Other Constitutional Dis. † | - | - | - | - | 379 | 508 | 515 | 571 | 521 | 542 | 546 | 165 | 143 | 117 | 121 |
| Premature Birth - - - | 1350 | 1308 | 1565 | 1489 | 1745 | 1861 | 1911 | 1837 | 1930 | 1975 | 1938 | 482 | 465 | 476 | 515 |
| Alectæsiæ† - - - - | - | - | - | - | 100 | 136 | 126 | 150 | 128 | 138 | 161 | 38 | 40 | 47 | 36 |
| Congenital Malformations | 383 | 346 | 348 | 338 | 325 | 328 | 353 | 376 | 319 | 352 | 345 | 101 | 84 | 62 | 98 |
| Old Age - - - - - | 2314 | 2866 | 2495 | 2568 | 2554 | 2730 | 2473 | 2552 | 2651 | 2458 | 2465 | 824 | 606 | 496 | 559 |
| Apoplexy - - - - - | 2341 | 2363 | 2250 | 2345 | 2085 | 1993 | 2141 | 2149 | 2133 | 2038 | 2236 | 600 | 542 | 512 | 582 |
| Epilepsy - - - - - | 358 | 396 | 334 | 373 | 336 | 345 | 378 | 346 | 369 | 345 | 365 | 95 | 108 | 88 | 79 |
| Convulsions - - - - | 2558 | 2582 | 2445 | 2264 | 2563 | 2549 | 2602 | 2343 | 2390 | 2379 | 2392 | 646 | 540 | 610 | 557 |
| Other Diseases of Brain, &c. | 4197 | 4341 | 4135 | 4091 | 4678 | 4481 | 4440 | 4313 | 4462 | 4465 | 4364 | 1190 | 1189 | 1008 | 977 |
| Diseases of Organs of Special Sense† - - } | - | - | - | - | 86 | 135 | 121 | 112 | 133 | 98 | 116 | 25 | 32 | 32 | 27 |
| Diseases of Circulatory System - - - - - } | 4705 | 4871 | 4548 | 4865 | 5204 | 5394 | 5472 | 5755 | 6117 | 6290 | 6159 | 1924 | 1458 | 1320 | 1577 |

* For comparison of the numbers in 1888 with the corrected averages for the ten years 1878-87, see Table 14.

† In consequence of changes of classification, the deaths from these diseases cannot be given for years prior to 1883.

† See note (†), Table 1.

TABLE 13 (cont.)—Causes of Deaths REGISTERED in London in each of the 11 Years 1878-1888; and in each Quarter of 1888.

| YEARS - - - | 1878 | 1879 | 1880 | 1881 | 1882 | 1883 | 1884 | 1885 | 1886 | 1887 | 1888 | 1888. | | | |
|---|--------------|--------------|--------------|--------------|--------------|--------------|--------------|--------------|--------------|--------------|---------------|----------------|-------------|-------------|-------------|
| | | | | | | | | | | | | QUARTER ENDING | | | |
| | | | | | | | | | | | | Mar. 31 | June 30 | Sept. 29 | Dec. 29 |
| CAUSES OF DEATH. | 364 Days. | 371 Days. | 364 Days. | 364 Days. | 364 Days. | 364 Days. | 371 Days. | 364 Days. | 364 Days. | 364 Days. | 364* Days. | 91 Days. | 91 Days. | 91 Days. | 91 Days. |
| Croup - - - | 600 | 577 | 570 | 695 | 873 | 827 | 751 | 674 | 523 | 507 | 494 | 190 | 94 | 75 | 135 |
| Bronchitis - - - | 10879 | 14212 | 11138 | 9374 | 11003 | 10011 | 9211 | 10352 | 11232 | 10326 | 10085 | 4065 | 2007 | 1166 | 847 |
| Pneumonia - - - | 4398 | 5130 | 4173 | 4107 | 4534 | 4431 | 4254 | 4642 | 4661 | 4797 | 4657 | 1658 | 1125 | 692 | 1181 |
| Pleurisy - - - | 247 | 268 | 241 | 240 | 269 | 292 | 261 | 327 | 261 | 323 | 267 | 73 | 71 | 49 | 74 |
| Other Diseases of Respiratory System - - - | 1906 | 2141 | 1841 | 1792 | 1695 | 1511 | 1484 | 1563 | 1587 | 1535 | 1493 | 559 | 317 | 226 | 301 |
| Dentition - - - | 775 | 732 | 660 | 653 | 705 | 768 | 796 | 766 | 698 | 628 | 603 | 125 | 178 | 144 | 116 |
| Sore Throat, Quinsy† - - | - | - | - | - | 115 | 113 | 102 | 98 | 89 | 107 | 102 | 29 | 19 | 21 | 33 |
| Enteritis - - - | 370 | 337 | 429 | 412 | 373 | 364 | 336 | 365 | 518 | 569 | 464 | 86 | 76 | 194 | 108 |
| Peritonitis - - - | 275 | 281 | 291 | 371 | 347 | 386 | 340 | 330 | 323 | 338 | 334 | 86 | 70 | 95 | 83 |
| Diseases of Liver - - - | 1569 | 1461 | 1513 | 1514 | 1529 | 1496 | 1555 | 1432 | 1524 | 1462 | 1330 | 314 | 314 | 354 | 348 |
| Others, Digestive System - | 1290 | 1339 | 1342 | 1377 | 1424 | 1500 | 1662 | 1468 | 1561 | 1420 | 1330 | 402 | 363 | 408 | 337 |
| Diseases of Lymphatic System and Ductless Glands† - - - | - | - | - | - | 78 | 100 | 105 | 84 | 115 | 95 | 95 | 31 | 28 | 19 | 17 |
| Diseases of Urinary System | 1578 | 1604 | 1600 | 1677 | 1732 | 1985 | 1878 | 1955 | 2049 | 2100 | 2116 | 592 | 536 | 469 | 519 |
| Diseases of Generative System - - - | 289 | 278 | 229 | 277 | 317 | 283 | 315 | 273 | 283 | 297 | 270 | 73 | 66 | 62 | 69 |
| Accidents of Childbirth - | 255 | 245 | 253 | 228 | 225 | 180 | 193 | 182 | 200 | 163 | 169 | 36 | 43 | 47 | 43 |
| Diseases of Locomotive System† - - - | - | - | - | - | 433 | 303 | 381 | 357 | 389 | 345 | 368 | 97 | 80 | 90 | 101 |
| Diseases of Integumentary System† - - - | - | - | - | - | 245 | 253 | 279 | 256 | 273 | 273 | 258 | 72 | 61 | 67 | 18 |
| (ACCIDENT OR NEGLIGENCE.)‡ | | | | | | | | | | | | | | | |
| Fractures and Contusions - | 965 | 963 | 897 | 1030 | 1034 | 1076 | 1065 | 983 | 970 | 1025 | 994 | 255 | 231 | 267 | 241 |
| Wounds { Gunshot - - - | 7 | 8 | 7 | 8 | 3 | 2 | 7 | 6 | 13 | 4 | 5 | 3 | 1 | - | 1 |
| Wounds { Cut, Stab - - - | 29 | 19 | 21 | 19 | 25 | 14 | 27 | 18 | 10 | 13 | 17 | 4 | 2 | 4 | 7 |
| Burns and Scalds - - - | 267 | 318 | 238 | 275 | 240 | 230 | 288 | 209 | 285 | 327 | 314 | 125 | 65 | 47 | 86 |
| Poison - - - | 69 | 67 | 58 | 77 | 71 | 79 | 60 | 77 | 63 | 64 | 67 | 19 | 22 | 12 | 14 |
| Drowning - - - | 869 | 311 | 326 | 337 | 351 | 369 | 305 | 233 | 325 | 326 | 268 | 42 | 83 | 102 | 41 |
| Suffocation - - - | 569 | 630 | 605 | 646 | 643 | 626 | 601 | 674 | 595 | 639 | 718 | 221 | 183 | 122 | 192 |
| Otherwise - - - | 150 | 154 | 128 | 184 | 126 | 115 | 165 | 111 | 132 | 150 | 123 | 37 | 25 | 26 | 33 |
| Battle - - - | - | - | - | - | 2 | - | 1 | - | - | - | - | - | - | - | - |
| (HOMICIDE.)‡ | | | | | | | | | | | | | | | |
| Murder and Manslaughter | 78 | 88 | 89 | 87 | 83 | 75 | 70 | 62 | 68 | 80 | 76 | 14 | 22 | 20 | 20 |
| (SUICIDE.)‡ | | | | | | | | | | | | | | | |
| Wounds { Gunshot - - - | 30 | 48 | 25 | 26 | 29 | 39 | 42 | 35 | 39 | 53 | 48 | 5 | 17 | 14 | 12 |
| Wounds { Cut, Stab - - - | 59 | 77 | 69 | 83 | 61 | 61 | 80 | 67 | 87 | 84 | 65 | 10 | 21 | 12 | 13 |
| Poison - - - | 64 | 70 | 74 | 70 | 62 | 81 | 70 | 84 | 93 | 71 | 112 | 26 | 30 | 36 | 20 |
| Drowning - - - | 59 | 64 | 67 | 59 | 64 | 61 | 71 | 42 | 65 | 76 | 52 | 10 | 17 | 11 | 14 |
| Hanging - - - | 74 | 100 | 85 | 83 | 69 | 95 | 71 | 77 | 89 | 75 | 86 | 15 | 31 | 24 | 16 |
| Otherwise - - - | 29 | 33 | 32 | 39 | 27 | 31 | 33 | 40 | 29 | 39 | 57 | 3 | 11 | 14 | 9 |
| (EXECUTION.) | | | | | | | | | | | | | | | |
| Hanging - - - | 1 | 3 | 4 | - | 2 | 2 | 2 | 4 | - | 2 | 1 | - | - | - | 1 |
| ALL OTHER CAUSES - - - | - | - | - | - | 3458 | 3438 | 3500 | 3045 | 3258 | 3060 | 2923 | 734 | 629 | 798 | 762 |

* For comparison of the numbers in 1888 with the corrected averages for the ten years 1878-87, see Table 14.

† In consequence of changes of classification, the deaths from these diseases cannot be given for years prior to 1882.

‡ The evidence at inquests is often insufficient to enable the coroner to certify whether a violent death resulted from accident, murder, manslaughter, or suicide. All such cases are classed under "accident or negligence."

TABLE 14.—Deaths REGISTERED in London at several groups of Ages and from different Causes during the 52 Weeks of 1888.

| CAUSES OF DEATH. | Corrected Annual Average, 1878-87. | TOTAL AT ALL AGES. | Under 5 Years. | | 5 and under 20. | 20 and under 40. | 40 and under 60. | 60 and under 80. | 80 and upwds. |
|--|------------------------------------|--------------------|----------------|--------|-----------------|------------------|------------------|------------------|---------------|
| | | | Under 1 Year. | 1-5. | | | | | |
| ALL CAUSES | 89,433·1 | 78,848 | 19,196 | 13,312 | 4921 | 9578 | 13,501 | 15,049 | 3291 |
| Small-pox † { Vaccinated Unvaccinated No Statement } | 866·0 { | 5 4 | - - | - 1 | - - | 4 3 | 1 - | - - | - - |
| Measles - - - - - | 2494·8 | 2401 | 443 | 1894 | 149 | 5 | - | - | - |
| Scarlet Fever - - - - - | 1950·8 | 1209 | 68 | 722 | 384 | 80 | 5 | - | - |
| Typhus - - - - - | 63·7 | 10 | - | 2 | 3 | 3 | 1 | 1 | - |
| Relapsing Fever - - - - - | 51 | - | - | - | - | - | - | - | - |
| Influenza - - - - - | 7·9 | 3 | 1 | - | - | - | - | 1 | 1 |
| Whooping-cough - - - - - | 8313·5 | 2987 | 1176 | 1702 | 104 | 3 | 2 | - | - |
| Diphtheria - - - - - | 1851·1 | 1301 | 71 | 749 | 433 | 31 | 13 | 4 | - |
| Simple and Ill-defined Fever - - - - - | 116·8 | 38 | - | 8 | 7 | 8 | 6 | 4 | - |
| Enteric Fever - - - - - | 889·9 | 677 | 1 | 54 | 248 | 269 | 83 | 22 | - |
| Simple Cholera - - - - - | 114·4 | 54 | 86 | 9 | 2 | 2 | 4 | 1 | - |
| Diarrhoea, Dysentery - - - - - | 3425·1 | 2176 | 1537 | 374 | 13 | 20 | 47 | 135 | 50 |
| Remittent Fever - - - - - | 19·0† | 9 | 1 | 4 | 3 | - | 1 | - | - |
| Hydrophobia - - - - - | 8·0 | 3 | - | - | 2 | 1 | - | - | - |
| Glanders - - - - - | 2·5 | 1 | - | - | - | 1 | - | - | - |
| Cowpox and Vaccination - - - - - | 10·2† | 4 | 4 | - | - | - | - | - | - |
| Venerical Affections - - - - - | 583·6 | 516 | 348 | 27 | 6 | 44 | 67 | 26 | - |
| Erysipelas - - - - - | 346·9 | 249 | 74 | 4 | 10 | 26 | 72 | 54 | 9 |
| Pyæmia, Septicæmia - - - - - | 159·8† | 162 | 27 | 18 | 17 | 44 | 34 | 12 | - |
| Puerperal Fever - - - - - | 305·5 | 275 | - | - | 10 | 244 | 21 | - | - |
| Other Zymotic Diseases - - - - - | 98·2† | 76 | 20 | 34 | 3 | 4 | 7 | 7 | 1 |
| Thrush - - - - - | 148·2 | 63 | 63 | - | - | - | - | - | - |
| Worms & other Parasitical Diseases - - - - - | 23·4 | 14 | - | 3 | 1 | 6 | 2 | 2 | - |
| Starvation, Want of Breast-milk - - - - - | 100·6 | 61 | 61 | - | - | 2 | 5 | 3 | - |
| Alcoholism, Delirium Tremens - - - - - | 236·7 | 298 | - | - | - | 114 | 146 | 37 | 1 |
| Rheumatic Fever, Rheumatism of Heart - - - - - | 414·8 | 397 | 2 | 10 | 117 | 129 | 103 | 35 | 1 |
| Rheumatism - - - - - | 139·2 | 108 | - | - | - | 12 | 31 | 62 | 3 |
| Gout - - - - - | 173·0 | 138 | - | - | - | 6 | 38 | 87 | 8 |
| Rhelets - - - - - | 182·1† | 230 | 73 | 156 | 1 | - | - | - | - |
| Cancer - - - - - | 2876·2 | 2856 | 5 | 9 | 80 | 296 | 1237 | 1165 | 64 |
| Tuberc Mesenterica - - - - - | 1597·2 | 1249 | 761 | 366 | 81 | 27 | 12 | 2 | - |
| Tubercular Meningitis - - - - - | 1548·2 | 1220 | 423 | 553 | 205 | 23 | 5 | 1 | - |
| Phthisis - - - - - | 9198·3 | 7459 | 109 | 206 | 632 | 3555 | 2444 | 472 | 11 |
| Scrofula, Tuberculosis - - - - - | 879·5 | 862 | 283 | 263 | 158 | 94 | 48 | 11 | - |
| Other Constitutional Diseases - - - - - | 823·6† | 846 | 34 | 17 | 48 | 96 | 149 | 192 | 10 |
| Premature Birth - - - - - | 1853·3 | 1938 | 1938 | - | - | - | - | - | - |
| Atelectasis - - - - - | 136·6† | 161 | 161 | - | - | - | - | - | - |
| Congenital Malformations - - - - - | 371·3 | 345 | 313 | 22 | 8 | 1 | 1 | - | - |
| Old Age - - - - - | 2809·2 | 2485 | - | - | - | - | 13 | 1217 | 1255 |
| Apoplexy - - - - - | 2872·2 | 2236 | 19 | 32 | 14 | 163 | 760 | 1064 | 184 |
| Epilepsy - - - - - | 388·0 | 365 | 10 | 17 | 41 | 95 | 95 | 99 | 8 |
| Convulsions - - - - - | 2680·4 | 2392 | 2034 | 341 | 16 | 1 | - | - | - |
| Other Diseases of Brain, &c. - - - - - | 4736·5 | 4364 | 695 | 769 | 314 | 381 | 721 | 1270 | 214 |
| Diseases of Organs of Special Sense - - - - - | 121·2 | 116 | 27 | 17 | 28 | 21 | 16 | 5 | 2 |
| Diseases of Circulatory System - - - - - | 5781·3 | 6259 | 83 | 62 | 426 | 927 | 1889 | 2489 | 383 |

* These averages have been raised for increase of population between the middle of the period 1878-87, and the middle of 1888, and reduced for comparison with the deaths recorded in the 52 weeks of 1888. For the population in each group of ages, estimated to the middle of 1888, see Table 19.

† Those cases of small-pox only are returned as "Vaccinated" or as "Unvaccinated" which are so certified by registered medical men. When the medical attendant does not certify that the deceased has, or has not, been vaccinated, or when the cause of death is not certified by a registered practitioner, the case is returned under the heading "No Statement."

‡ In consequence of changes of classification the deaths from these diseases in years prior to 1892 cannot be ascertained; the averages are therefore only for the six years 1882-87.

§ See note † Table 1.

TABLE 14 (continued).—Deaths REGISTERED in London at several groups of Ages and from different Causes during the 52 Weeks of 1888.

| CAUSES OF DEATH. | Annual Average 1878-87. | TOTAL AT ALL AGES. | Under 5 Years. | | 5 and under 20. | 20 and under 40. | 40 and under 60. | 60 and under 80. | 80 and upwards. |
|--|-------------------------|--------------------|----------------|------|-----------------|------------------|------------------|------------------|-----------------|
| | | | Under 1 Year. | 1-5. | | | | | |
| Croup - - - - - | 726.4 | 494 | 43 | 379 | 72 | - | - | - | - |
| Bronchitis - - - - - | 11763.2 | 10085 | 2503 | 1874 | 181 | 284 | 1446 | 3182 | 660 |
| Pneumonia - - - - - | 4910.8 | 4657 | 972 | 1307 | 262 | 614 | 820 | 610 | 72 |
| Pleurisy - - - - - | 296.4 | 267 | 9 | 32 | 18 | 60 | 87 | 54 | 7 |
| Other Diseases of Respiratory System | 1851.7 | 1493 | 283 | 287 | 63 | 102 | 324 | 382 | 52 |
| Dentition - - - - - | 779.0 | 603 | 354 | 249 | - | - | - | - | - |
| Sore Throat, Quinsy - - - - - | 109.6‡ | 102 | 16 | 48 | 18 | 6 | 10 | 4 | - |
| Enteritis - - - - - | 439.2 | 464 | 213 | 54 | 39 | 50 | 41 | 57 | 10 |
| Peritonitis - - - - - | 351.0 | 334 | 25 | 21 | 65 | 99 | 71 | 43 | 5 |
| Diseases of Liver - - - - - | 1635.4 | 1320 | 19 | 8 | 15 | 203 | 550 | 392 | 43 |
| Others, Digestive System - - - - - | 1562.5 | 1530 | 351 | 75 | 79 | 192 | 384 | 444 | 55 |
| Disease of Lymphatics, &c. - - - - - | 101.3‡ | 95 | 4 | 9 | 20 | 20 | 25 | 15 | 2 |
| Diseases of Urinary System - - - - - | 1972.5 | 2116 | 24 | 79 | 109 | 336 | 743 | 746 | 74 |
| Diseases of Generative System - - - - - | 309.7 | 270 | 10 | 4 | 4 | 91 | 104 | 55 | 2 |
| Accidents of Childbirth - - - - - | 230.7 | 169 | - | - | 5 | 140 | 24 | - | - |
| Diseases of Locomotive System - - - - - | 403.5‡ | 368 | 15 | 30 | 138 | 74 | 53 | 56 | 2 |
| Diseases of Integumentary System - - - - - | 277.3‡ | 258 | 74 | 12 | 7 | 16 | 61 | 89 | 18 |
| (ACCIDENT OR NEGLIGENCE.)† | | | | | | | | | |
| Fractures and Contusions - - - - - | 1087.4 | 994 | 29 | 114 | 148 | 212 | 253 | 200 | 28 |
| Wounds { Gunshot - - - - - | 7.1 | 5 | - | 1 | 3 | 2 | - | - | - |
| Wounds { Cut, Stab - - - - - | 20.2 | 17 | - | 1 | 4 | 6 | 6 | - | - |
| Burns and Scalds - - - - - | 307.0 | 314 | 25 | 149 | 62 | 34 | 23 | 23 | 8 |
| Poison - - - - - | 74.4 | 67 | 3 | 12 | 4 | 24 | 16 | 9 | - |
| Drowning - - - - - | 406.6 | 298 | 5 | 9 | 64 | 97 | 74 | 15 | - |
| Suffocation - - - - - | 665.7 | 718 | 644 | 24 | 6 | 14 | 20 | 9 | 1 |
| Otherwise - - - - - | 154.8 | 123 | 56 | 8 | 14 | 16 | 19 | 6 | 4 |
| (BATTLE.) | | | | | | | | | |
| Gunshot Wounds - - - - - | - | - | - | - | - | - | - | - | - |
| (HOMICIDE.)† | | | | | | | | | |
| Murder and Manslaughter - - - - - | 84.7 | 76 | 39 | 3 | - | 11 | 18 | 6 | - |
| (SUICIDE.)† | | | | | | | | | |
| Wounds { Gunshot - - - - - | 37.8 | 48 | - | - | 1 | 23 | 15 | 7 | 2 |
| Wounds { Cut, Stab - - - - - | 79.1 | 65 | - | - | - | 22 | 81 | 12 | - |
| Poison - - - - - | 80.3 | 112 | - | - | 4 | 48 | 48 | 12 | - |
| Drowning - - - - - | 62.2 | 52 | - | 1 | 2 | 20 | 24 | 4 | 1 |
| Hanging - - - - - | 88.9 | 86 | - | - | 2 | 21 | 38 | 25 | - |
| Otherwise - - - - - | 36.1 | 37 | - | - | 2 | 14 | 21 | - | - |
| (EXECUTION.) | | | | | | | | | |
| Hanging - - - - - | 2.2 | 1 | - | - | - | - | - | 1 | - |
| All Other Causes - - - - - | 3469.7‡ | 292 | 2476 | 168 | 22 | 32 | 79 | 116 | 39 |

* See note * on preceding page.

† The evidence at inquests is often insufficient to enable the coroner to certify whether a violent death resulted from accident, murder, manslaughter, or suicide. All such cases are classed under "accident or negligence."

‡ In consequence of changes of classification the deaths from these diseases in years prior to 1882 cannot be ascertained; the averages in these cases are therefore only for the six years 1882-87.

TABLE 15.—Deaths Registered in the London Registration Districts, and Mean Temperature and Registered Sunshine at Greenwich, in each of the 11 Years 1878-1888.

| REGISTRATION DISTRICTS. | AREA in Acres.* | DENSITY, Persons to an Acre, 1881. | 1878 | 1879 | 1880 | 1881 | 1882 | 1883 | 1884 | 1885 | 1886 | 1887 | 1888 |
|---------------------------------|-----------------|------------------------------------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|
| Mean Temperature - - - | — | — | 49°·6 | 49°·2 | 49°·4 | 48°·7 | 49°·7 | 49°·4 | 50°·7 | 48°·6 | 48°·7 | 48°·0 | 47°·7 |
| Registered Sunshine in Hours - | — | — | 1250 | 933 | 1211 | 1296 | 1245 | 1211 | 1115 | 1261 | 1228 | 1401 | 1068 |
| LONDON - - | 77,410 | 49 | 84,298 | 83,964 | 81,957 | 81,431 | 83,015 | 81,108 | 82,383 | 80,943 | 82,682 | 82,440 | 78,848 |
| 1 ^a PADDINGTON - - - | 1251 | 86 | 1942 | 2063 | 1881 | 1871 | 1943 | 1974 | 1974 | 2010 | 2002 | 2023 | 2143 |
| 1 ^b KENSINGTON - - - | 2190 | 74 | 3118 | 2910 | 2874 | 2818 | 3074 | 3030 | 3033 | 3193 | 3101 | 3126 | 3365 |
| 2 FULHAM - - - | 4209 | 27 | 2358 | 2219 | 2231 | 2472 | 2500 | 2618 | 2696 | 2761 | 2781 | 3201 | 3194 |
| 3 CHELSEA - - - | 861 | 102 | 1920 | 2108 | 2008 | 1946 | 2357 | 2096 | 2055 | 2208 | 2144 | 2188 | 1980 |
| 4 ST. GEO. HANOVER SQ. - | 2051 | 73 | 3340 | 3315 | 3163 | 3122 | 3086 | 3071 | 3010 | 2916 | 3103 | 2923 | 2841 |
| 5 WESTMINSTER - - - | 216 | 216 | 1098 | 979 | 983 | 931 | 880 | 775 | 841 | 772 | 783 | 731 | 623 |
| 6 MARYLEBONE - - - | 1506 | 103 | 3654 | 3850 | 3498 | 3326 | 3115 | 2993 | 2807 | 2853 | 2880 | 2657 | 2394 |
| 7 HAMPTHEAD - - - | 2248 | 20 | 853 | 626 | 580 | 619 | 666 | 610 | 841 | 770 | 771 | 771 | 773 |
| 8 PANCRAS - - - | 2672 | 88 | 5365 | 5486 | 5338 | 5225 | 5077 | 4988 | 5181 | 5005 | 5058 | 5085 | 4733 |
| 9 ISLINGTON - - - | 3107 | 91 | 5376 | 5456 | 5716 | 5617 | 5343 | 5561 | 5515 | 5729 | 5510 | 5753 | 5188 |
| 10 HACKNEY - - - | 3935 | 47 | 3636 | 3440 | 3545 | 3990 | 3683 | 3756 | 3964 | 3793 | 3789 | 3347 | 3810 |
| 11 ST. GILES - - - | 245 | 185 | 1101 | 1095 | 1135 | 1019 | 1011 | 1009 | 1029 | 890 | 891 | 870 | 686 |
| 12 STRAND - - - | 433 | 78 | 1183 | 1282 | 1083 | 997 | 1087 | 1026 | 1018 | 917 | 989 | 912 | 918 |
| 13 HOLBORN - - - | 816 | 186 | 3680 | 3739 | 3209 | 3106 | 3187 | 2959 | 3059 | 2897 | 2964 | 3004 | 2919 |
| 14 LONDON CITY - - - | 731 | 70 | 1561 | 1591 | 1417 | 1469 | 1450 | 1448 | 1390 | 1422 | 1343 | 1261 | 1300 |
| 15 SHOREDITCH - - - | 648 | 195 | 3133 | 3074 | 2959 | 3001 | 3247 | 3023 | 2873 | 2950 | 3216 | 3071 | 2948 |
| 16 BETHNAL GREEN - - - | 755 | 163 | 2957 | 2919 | 2910 | 3064 | 3088 | 3082 | 2849 | 2897 | 3000 | 2845 | 2837 |
| 17 WHITECHAPEL - - - | 405 | 176 | 2445 | 2443 | 2245 | 2861 | 2314 | 2257 | 2200 | 2084 | 2361 | 2219 | 2172 |
| 18 ST. GEO.-IN-THE-EAST - | 244 | 193 | 1152 | 1409 | 1212 | 1353 | 1197 | 1248 | 1185 | 1287 | 1187 | 1161 | 1113 |
| 19 STEPNEY - - - | 509 | 103 | 1334 | 1402 | 1325 | 1279 | 1355 | 1396 | 1316 | 1407 | 1317 | 1333 | 1349 |
| 20 MILE END OLD TOWN - | 679 | 156 | 2287 | 2484 | 2346 | 2238 | 2336 | 2263 | 2193 | 2691 | 2142 | 2129 | 1972 |
| 21 POPLAR - - - | 2648 | 59 | 3679 | 3672 | 3797 | 3524 | 3979 | 3734 | 3719 | 3569 | 3617 | 3321 | 3516 |
| 22 ST. SAVIOUR SOUTHWARK - | 1170 | 167 | 4765 | 4728 | 4599 | 4270 | 4754 | 4366 | 4617 | 4229 | 4555 | 4469 | 3599 |
| 23 ST. OLAVE SOUTHWARK - | 1728 | 78 | 3810 | 3712 | 3364 | 3346 | 3514 | 3310 | 3382 | 3031 | 3397 | 3359 | 3115 |
| 24 LAMBETH - - - | 4060 | 62 | 5801 | 5669 | 5750 | 5406 | 5687 | 5492 | 5451 | 5212 | 5481 | 5430 | 5156 |
| 25 WANDSWORTH - - - | 11707 | 18 | 3308 | 3423 | 3637 | 3660 | 3845 | 4105 | 4203 | 4202 | 4424 | 4317 | 4319 |
| 26 CAMBERWELL - - - | 4450 | 42 | 3357 | 3454 | 3546 | 3491 | 3777 | 3428 | 3815 | 3765 | 3995 | 4140 | 4162 |
| 27 GREENWICH - - - | 3801 | 35 | 2809 | 2841 | 2956 | 3458 | 3024 | 2925 | 3193 | 3059 | 3005 | 3117 | 2998 |
| 28 LEWISHAM - - - | 10794 | 6 | 1064 | 985 | 1064 | 1051 | 1074 | 1054 | 1117 | 1129 | 1175 | 1176 | 1212 |
| 29 WOOLWICH - - - | 7281 | 11 | 2132 | 1550 | 1594 | 1401 | 1330 | 1538 | 1439 | 1534 | 1711 | 1645 | 1559 |
| METROPOLITAN ASYLUM HOSPITALS.† | | | | | | | | | | | | | |
| DARTFORD - - - | — | — | — | — | — | — | — | — | 233 | 419 | 19 | 2 | 4 |
| WINCHMORE HILL - - - | — | — | — | — | — | — | — | — | — | — | — | 15 | 22 |
| PLAISTOW - - - | — | — | — | — | — | — | — | — | 85 | 51 | — | 9 | 3 |

NOTE. — This Table is compiled from the Abstracts which appear in the Registrar General's Annual Reports, excepting for the year 1888, for which the numbers are derived from the Weekly Returns embracing 52 weeks.

* These areas include 2718 acres of tidal water, or of the river Thames. For area of Greater London see Table 7.

† Excluding deaths not belonging to Registration London.

TABLE 16.—LONDON. POPULATION; and BIRTHS and DEATHS in REGISTRATION DISTRICTS during the 52 Weeks of 1888.

| REGISTRATION DISTRICTS. | | Enumerated Population, 1881. | Total Burials in 52 Weeks. | Total Deaths in 52 Weeks. | The DEATHS registered in the 52 Weeks include | | | | | | | | | | | | | | | |
|---|---|------------------------------|----------------------------|---------------------------|---|-------|------------------------------|------------------------------------|------------|----------|----------------|-------------|-----------------|---------------|-----------------------------|-------------------------|------------|----------------|--------------------------------|------------------------------|
| | | | | | Deaths of | | Deaths from | | | | | | | | | | | Inquest Cases. | Deaths in Public Institutions. | Uncertified Causes of Death. |
| | | | | | | | Infants under 1 Year of Age. | Persons aged 10 Years and upwards. | Small-pox. | Measles. | Scarlet Fever. | Diphtheria. | Whooping-cough. | Typhus Fever. | Enteric (or Typhoid) Fever. | Simple continued Fever. | Diarrhoea. | | | |
| LONDON | - | 3815704 | 131080 | 78848 | 19196 | 18340 | 9 | 2401 | 1209 | 1301 | 2987 | 10 | 677 | 33 | 2176 | 54 | 2983 | 5816 | 17728 | 766 |
| WEST DISTRICTS | - | 669633 | 19771 | 13851 | 3000 | 3542 | 1 | 420 | 142 | 318 | 492 | 2 | 108 | 5 | 368 | 8 | 486 | 972 | 3668 | 98 |
| NORTH DISTRICTS | - | 903947 | 25234 | 17118 | 4006 | 4233 | 2 | 626 | 373 | 428 | 593 | 2 | 192 | 7 | 408 | 17 | 562 | 1247 | 3543 | 28 |
| CENTRAL DISTRICTS | - | 289238 | 7868 | 5823 | 1323 | 1133 | - | 161 | 27 | 135 | 192 | 1 | 38 | 2 | 164 | 1 | 322 | 559 | 1808 | 50 |
| EAST DISTRICTS | - | 692738 | 26128 | 15007 | 40.9 | 3447 | 1 | 656 | 218 | 201 | 636 | - | 133 | 2 | 485 | 8 | 704 | 1503 | 4147 | 93 |
| SOUTH DISTRICTS | - | 1265148 | 48029 | 26120 | 6738 | 5985 | 1 | 558 | 425 | 419 | 1041 | 5 | 206 | 17 | 748 | 20 | 909 | 1533 | 4533 | 457 |
| METROPOLITAN ASYLUM HOSPITALS OUTSIDE RE- GISTRATION LONDON | - | - | - | 29 | - | - | 4 | - | 24 | - | - | - | - | - | - | - | - | - | 29 | - |
| WEST DISTRICTS. | | | | | | | | | | | | | | | | | | | | |
| 1a. PADDINGTON | - | 107218 | 2343 | 2143 | 307 | 592 | - | 67 | 7 | 98 | 75 | - | 25 | - | 38 | 2 | 121 | 180 | 601 | 1 |
| 1b. KENSINGTON | - | 133151 | 3776 | 3065 | 591 | 951 | - | 124 | 10 | 65 | 102 | - | 20 | 2 | 59 | - | 57 | 157 | 847 | 12 |
| 2. FULHAM | - | 114839 | 5855 | 5194 | 981 | 672 | 1 | 183 | 92 | 57 | 141 | 1 | 34 | 1 | 120 | 1 | 104 | 229 | 454 | 19 |
| 3. CHELSEA | - | 88123 | 3056 | 1980 | 476 | 449 | - | 62 | 13 | 14 | 75 | 1 | 7 | 1 | 60 | 2 | 42 | 143 | 557 | 9 |
| 4. ST. GEO. HANOVER SQ. | - | 149748 | 3236 | 2841 | 471 | 703 | - | 21 | 17 | 81 | 85 | - | 14 | 1 | 48 | 2 | 148 | 220 | 1103 | 43 |
| 5. WESTMINSTER | - | 46549 | 1005 | 628 | 144 | 169 | - | 13 | 3 | 3 | 11 | - | 8 | - | 13 | 1 | 14 | 34 | 126 | 14 |
| NORTH DISTRICTS. | | | | | | | | | | | | | | | | | | | | |
| 6. MARYLEBONE | - | 151910 | 4401 | 2594 | 622 | 659 | - | 126 | 13 | 22 | 58 | - | 25 | 1 | 49 | 1 | 93 | 216 | 444 | 5 |
| 7. HAMPSTEAD | - | 45452 | 1389 | 773 | 153 | 202 | - | 24 | 43 | 12 | 17 | - | 3 | - | 14 | - | 25 | 48 | 150 | 2 |
| 8. FANCRAIS | - | 239238 | 7333 | 4753 | 1093 | 1119 | - | 203 | 27 | 59 | 151 | - | 59 | 1 | 98 | 7 | 193 | 421 | 1363 | 5 |
| 9. ISLINGTON | - | 282365 | 9503 | 5183 | 1264 | 1200 | - | 147 | 59 | 45 | 232 | 1 | 43 | 5 | 164 | 6 | 124 | 307 | 823 | 3 |
| 10. HACKNEY | - | 186462 | 6513 | 3310 | 874 | 953 | 2 | 126 | 231 | 10 | 135 | 1 | 62 | - | 83 | 3 | 122 | 255 | 763 | 13 |
| CENTRAL DISTRICTS. | | | | | | | | | | | | | | | | | | | | |
| 11. ST. GILES | - | 45282 | 1299 | 685 | 171 | 188 | - | 14 | 2 | 3 | 16 | - | 3 | - | 8 | 1 | 18 | 46 | 175 | 4 |
| 12. STRAND | - | 33582 | 695 | 919 | 140 | 201 | - | 12 | 4 | 20 | 19 | 1 | 7 | - | 12 | - | 61 | 116 | 469 | 13 |
| 13. HOLBORN | - | 151885 | 5247 | 4919 | 886 | 475 | - | 121 | 18 | 49 | 134 | - | 10 | 2 | 183 | - | 111 | 235 | 437 | 21 |
| 14. LONDON CITY | - | 51439 | 787 | 1300 | 126 | 260 | - | 14 | 3 | 63 | 23 | - | 18 | - | 11 | - | 132 | 162 | 727 | 11 |
| EAST DISTRICTS. | | | | | | | | | | | | | | | | | | | | |
| 15. SHOREDITCH | - | 120501 | 4628 | 2948 | 756 | 840 | - | 102 | 22 | 42 | 129 | - | 11 | - | 120 | - | 99 | 227 | 831 | 16 |
| 16. BETHNAL GREEN | - | 126961 | 4936 | 2837 | 753 | 601 | 1 | 123 | 82 | 25 | 167 | - | 14 | - | 61 | 1 | 93 | 228 | 556 | 2 |
| 17. WHITECHAPEL | - | 71863 | 2608 | 2172 | 437 | 378 | - | 27 | - | 54 | 48 | - | 32 | - | 72 | 2 | 177 | 274 | 1166 | 12 |
| 18. ST. GEO.-IN-THE-EAST | - | 47157 | 1837 | 1113 | 329 | 225 | - | 50 | 2 | 5 | 33 | - | 7 | 1 | 50 | 1 | 39 | 106 | 233 | 12 |
| 19. STEPNEY | - | 53743 | 2076 | 1349 | 448 | 163 | - | 98 | 19 | 36 | 63 | - | 9 | 1 | 59 | 3 | 67 | 128 | 221 | 21 |
| 20. MILE END OLD TOWN | - | 105613 | 4027 | 1972 | 535 | 472 | - | 103 | 35 | 7 | 96 | - | 16 | - | 45 | 1 | 43 | 155 | 291 | 25 |
| 21. POPLAR | - | 156510 | 6016 | 3576 | 811 | 768 | - | 153 | 58 | 32 | 133 | - | 44 | - | 79 | - | 181 | 385 | 889 | 5 |
| SOUTH DISTRICTS. | | | | | | | | | | | | | | | | | | | | |
| 22. ST.SAVIOUR SOUTHWARK | - | 195164 | 7101 | 3569 | 1120 | 714 | - | 84 | 37 | 37 | 147 | 2 | 21 | 2 | 125 | - | 105 | 228 | 349 | 91 |
| 23. ST. OLAVE SOUTHWARK | - | 134682 | 4901 | 3145 | 784 | 676 | - | 86 | 34 | 35 | 89 | 1 | 37 | 1 | 101 | 3 | 208 | 318 | 811 | 47 |
| 24. LAMBETH | - | 233999 | 9017 | 5156 | 1221 | 1242 | - | 118 | 56 | 124 | 171 | - | 33 | 5 | 122 | 2 | 180 | 280 | 1141 | 107 |
| 25. WANDSWORTH | - | 210424 | 9138 | 4319 | 1263 | 973 | - | 140 | 37 | 77 | 220 | - | 26 | 4 | 149 | 3 | 124 | 230 | 429 | 60 |
| 26. CAMBERWELL | - | 186593 | 7132 | 4162 | 960 | 1058 | 1 | 102 | 77 | 48 | 163 | 2 | 20 | 3 | 119 | 2 | 79 | 170 | 830 | 51 |
| 27. GREENWICH | - | 131233 | 5133 | 2998 | 733 | 659 | - | 30 | 167 | 43 | 139 | - | 49 | 2 | 81 | 5 | 111 | 171 | 648 | 71 |
| 28. LEWISHAM | - | 72543 | 2511 | 1212 | 266 | 389 | - | 19 | 9 | 33 | 60 | - | 10 | - | 21 | 1 | 29 | 51 | 108 | 20 |
| 29. WOOLWICH | - | 80845 | 3776 | 1559 | 391 | 344 | - | 9 | 8 | 22 | 55 | - | 7 | - | 30 | 4 | 75 | 67 | 217 | 50 |
| METROPOLITAN ASYLUM HOSPITALS OUTSIDE RE- GISTRATION LONDON | - | - | - | 29 | - | - | 4 | - | 24 | - | - | - | - | - | - | - | - | - | 29 | - |

TABLE 17. LONDON.—POPULATION; and BIRTHS and DEATHS in REGISTRATION SUB-DISTRICTS during the 52 Weeks of 1888.

| REGISTRATION SUB-DISTRICTS. | | Enumerated Population, 1881. | Total Births in 52 Weeks. | Total Deaths in 52 Weeks. | The DEATHS registered in the 52 Weeks include | | | | | | | | | | | | | | | | Inquest Cases. | Deaths in Public Institutions. | Unrecorded Causes | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
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| | | | | | Deaths of | | Deaths from | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| | | | | | Infants under 1 Year of Age. | Persons aged 60 Years and upwards. | Small-pox. | Measles. | Scarlet Fever. | Diphtheria. | Whooping- cough. | Typhus Fever. | Enteric (or Typhoid) Fever. | Simple con- tinued Fever. | Dysentery. | Cholera. | Violence. | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| WEST DISTRICTS. | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | </ |

Note.—The letters placed against the names of the sub-districts denote Public Institutions situated therein, namely:—*W*—Workhouse; *W*—Workhouse Establishment receiving inmates from other Districts than that in which it stands (see note at the foot of next page); *H*—Hospital; *L*—Lunatic Asylum. Deaths in Prisons and Military Asylums are not included.

TABLE 17 (continued).—LONDON.—POPULATION; and BIRTHS and DEATHS in REGISTRATION SUB-DISTRICTS, during the 52 Weeks of 1888.

| The DEATHS registered in the 52 Weeks include | | | | | | | | | | | | | | | | | | | |
|---|--|------------------------------------|------------------------------------|------------------------------------|---------------------------------|--|-------------|----------|----------------|-------------|---------------------|---------------|-----------------------------------|------------------------------|------------|----------|----------------|-----------------------------------|--------------------------------|
| REGISTRATION SUB-DISTRICTS. | | Enumerated Population, 1881. | Total Births in 52 Weeks. | Total Deaths in 52 Weeks. | Deaths of | | Deaths from | | | | | | | | | | Inquest Cases. | Deaths in Public Institutions. | Unofficial Causes of Death. |
| | | | | | Infants under 1 Year of Age. | Persons aged 60 Years and upwards. | Small-pox. | Measles. | Scarlet Fever. | Diphtheria. | Whooping- cough. | Typhus Fever. | Euteric (or Typhoid) Fever. | Simple con- tinued Fever. | Diarrhoea. | Cholera. | Violence. | | |
| EAST DISTRICTS. | | | | | | | | | | | | | | | | | | | |
| Holywell (Shoreditch) | | 7376 | 234 | 134 | 33 | 29 | - | 3 | 1 | 2 | 11 | - | - | - | 5 | - | - | - | - |
| St. Leonard (Shoreditch) HL* | | 14967 | 470 | 295 | 71 | 60 | - | 5 | 6 | 2 | 9 | - | - | - | 8 | - | - | - | - |
| Islington New Town W | | 29937 | 1114 | 836 | 206 | 349 | - | 23 | 3 | 2 | 26 | - | - | - | 34 | - | - | - | - |
| Islington Old Town | | 28036 | 1034 | 489 | 172 | 79 | - | 21 | 1 | 3 | 27 | - | - | - | 24 | - | - | - | - |
| Islington WH | | 46275 | 1772 | 1194 | 274 | 823 | - | 50 | 11 | 33 | 45 | - | - | - | 49 | - | - | - | - |
| Islington Road H | | 29738 | 1091 | 566 | 163 | 70 | - | 52 | 14 | 4 | 36 | - | - | - | 14 | - | - | - | - |
| Green (Bethnal Green) WHL* | | 47392 | 1854 | 1404 | 283 | 383 | - | 27 | 43 | 16 | 84 | - | - | - | 33 | - | - | - | - |
| Church (Bethnal Green) | | 29951 | 1227 | 689 | 185 | 101 | - | 17 | 30 | 4 | 30 | - | - | - | 33 | - | - | - | - |
| Town (Bethnal Green) | | 19310 | 761 | 328 | 122 | 37 | - | 27 | 5 | 1 | 17 | - | - | - | 7 | - | - | - | - |
| Spitalfields | | 22585 | 765 | 328 | 114 | 55 | - | 11 | - | 3 | 13 | - | - | - | 2 | - | - | - | - |
| Finsbury New Town W | | 15473 | 845 | 569 | 108 | 164 | - | 5 | - | 2 | 8 | - | - | - | 18 | - | - | - | - |
| Whitechapel Church H | | 17490 | 599 | 1077 | 150 | 117 | - | 8 | - | 49 | 18 | - | - | - | 28 | - | - | - | - |
| Goodman's Fields | | 9713 | 215 | 97 | 87 | 23 | - | - | - | - | 2 | - | - | - | - | - | - | - | - |
| Aldgate | | 6102 | 184 | 101 | 28 | 19 | - | 3 | - | - | 2 | - | - | - | - | - | - | - | - |
| St. George's North (St. George's in the East) | | 39747 | 1568 | 709 | 260 | 90 | - | 37 | 2 | 4 | 30 | - | - | - | 1 | - | - | - | - |
| St. John (St. George's in the East) W | | 8410 | 329 | 404 | 60 | 135 | - | 13 | - | 1 | 5 | - | - | - | 9 | - | - | - | - |
| Shadwell HH | | 10395 | 453 | 418 | 150 | 28 | - | 25 | 27 | 16 | - | - | - | - | 28 | - | - | - | - |
| Ratcliff | | 16107 | 438 | 303 | 93 | 47 | - | 22 | 3 | - | 10 | - | - | - | 1 | - | - | - | - |
| Aldgate | | 32041 | 1105 | 628 | 205 | 88 | - | 51 | 16 | 9 | 37 | - | - | - | 21 | - | - | - | - |
| Mile End Old Town Western | | 37360 | 1442 | 699 | 184 | 120 | - | 33 | 8 | 2 | 35 | - | - | - | 9 | - | - | - | - |
| Mile End Old Town Eastern W & H | | 67653 | 2485 | 1373 | 351 | 552 | - | 70 | 27 | 5 | 61 | - | - | - | 17 | - | - | - | - |
| Bow | | 37074 | 1403 | 683 | 183 | 119 | - | 27 | 30 | 9 | 26 | - | - | - | 11 | - | - | - | - |
| Bromley W & H | | 64359 | 2653 | 1856 | 365 | 473 | - | 74 | 20 | 17 | 53 | - | - | - | 23 | - | - | - | - |
| Poplar W & H | | 55077 | 1953 | 977 | 263 | 176 | - | 52 | 8 | 6 | 54 | - | - | - | 10 | - | - | - | - |
| SOUTH DISTRICTS. | | | | | | | | | | | | | | | | | | | |
| Christchurch Southwark WH | | 13983 | 462 | 292 | 96 | 85 | - | 16 | 1 | 1 | 7 | - | - | - | 1 | - | - | - | - |
| St. Saviour Southwark | | 14999 | 471 | 265 | 88 | 88 | - | 16 | 1 | 4 | 7 | - | - | - | 14 | - | - | - | - |
| Kent Road | | 21781 | 794 | 383 | 131 | 67 | - | 10 | 5 | 4 | 27 | - | - | - | 1 | - | - | - | - |
| Borough Road WH | | 15933 | 647 | 392 | 116 | 45 | - | 6 | 5 | 11 | 19 | - | - | - | 6 | - | - | - | - |
| London Road HL | | 21318 | 681 | 407 | 114 | 71 | - | 8 | 2 | 2 | 18 | - | - | - | 3 | - | - | - | - |
| Trinity Newington | | 26672 | 992 | 417 | 141 | 63 | - | 4 | 8 | 6 | 17 | - | - | - | 19 | - | - | - | - |
| St. Peter Walworth W | | 59555 | 2173 | 1043 | 317 | 293 | - | 13 | 10 | 5 | 83 | - | - | - | 317 | - | - | - | - |
| St. Mary Newington | | 21623 | 881 | 370 | 117 | 63 | - | 6 | 5 | 4 | 21 | - | - | - | 1 | - | - | - | - |
| St. Olave Southwark WH | | 11958 | 397 | 758 | 88 | 127 | - | 2 | 3 | 22 | 9 | - | - | - | 9 | - | - | - | - |
| Leather Market | | 48300 | 657 | 310 | 116 | 40 | - | 4 | 8 | - | 20 | - | - | - | 1 | - | - | - | - |
| St. Mary Magdalen W | | 15669 | 581 | 873 | 81 | 112 | - | 3 | 1 | 3 | 12 | - | - | - | 2 | - | - | - | - |
| St. James Bermondsey | | 54683 | 1917 | 844 | 267 | 145 | - | 15 | 10 | 6 | 28 | - | - | - | 15 | - | - | - | - |
| Rotherhithe WH | | 36024 | 1419 | 860 | 232 | 182 | - | 12 | 12 | 4 | 20 | - | - | - | 1 | - | - | - | - |
| Waterloo Road First H | | 15195 | 493 | 271 | 72 | 54 | - | 8 | 1 | 2 | 16 | - | - | - | 1 | - | - | - | - |
| Waterloo Road Second H | | 16351 | 1041 | 322 | 120 | 60 | - | 9 | 4 | 2 | 13 | - | - | - | 8 | - | - | - | - |
| Lambeth Church First H | | 19576 | 654 | 676 | 135 | 99 | - | 7 | 7 | 57 | 12 | - | - | - | 9 | - | - | - | - |
| Lambeth Church Second W & H | | 39859 | 1642 | 1120 | 239 | 333 | - | 17 | 15 | 8 | 25 | - | - | - | 2 | - | - | - | - |
| Kennington First | | 43532 | 548 | 776 | 217 | 176 | - | 8 | 9 | 32 | 9 | - | - | - | 19 | - | - | - | - |
| Kennington Second | | 33532 | 1042 | 638 | 105 | 167 | - | 15 | 4 | 8 | 23 | - | - | - | 6 | - | - | - | - |
| Brixton W & H | | 62837 | 1931 | 953 | 230 | 271 | - | 6 | 19 | 40 | 41 | - | - | - | 7 | - | - | - | - |
| Norwood W | | 19017 | 660 | 800 | 84 | 77 | - | 2 | 2 | 3 | 8 | - | - | - | 8 | - | - | - | - |
| East Battersea | | 36390 | 2513 | 985 | 360 | 121 | - | 45 | 18 | 8 | 58 | - | - | - | 6 | - | - | - | - |
| West Battersea W & H | | 64075 | 2543 | 1570 | 373 | 339 | - | 42 | 12 | 14 | 63 | - | - | - | 4 | - | - | - | - |
| Clapham H | | 52587 | 1076 | 551 | 161 | 151 | - | 14 | 8 | 18 | 31 | - | - | - | 6 | - | - | - | - |
| Wandsworth WHL | | 28004 | 1441 | 711 | 198 | 160 | - | 39 | 4 | 5 | 40 | - | - | - | 81 | - | - | - | - |
| Putney | | 19235 | 686 | 187 | 38 | 53 | - | - | - | 5 | 6 | - | - | - | 3 | - | - | - | - |
| Streatham | | 25553 | 1184 | 615 | 183 | 149 | - | - | - | 5 | 30 | - | - | - | 22 | - | - | - | - |
| Dulwich | | 5590 | 96 | 59 | 10 | 25 | - | - | - | 3 | 2 | - | - | - | - | - | - | - | - |
| Camberwell W & L & L* | | 59104 | 2802 | 1614 | 283 | 599 | - | 25 | 10 | 21 | 36 | - | - | - | 5 | - | - | - | - |
| Peckham H | | 71089 | 2350 | 1282 | 349 | 278 | - | 32 | 34 | 11 | 64 | - | - | - | 10 | - | - | - | - |
| St. George (Camberwell) | | 50810 | 2214 | 1007 | 118 | 169 | - | 46 | 38 | 13 | 61 | - | - | - | 5 | - | - | - | - |
| St. Paul Deptford W & H | | 76752 | 3193 | 1619 | 439 | 272 | - | 11 | 160 | 26 | 97 | - | - | - | 42 | - | - | - | - |
| St. Nicholas Deptford | | 7901 | 225 | 123 | 43 | 10 | - | - | - | - | 5 | - | - | - | 3 | - | - | - | - |
| Greenwich West H | | 21972 | 669 | 393 | 100 | 163 | - | 13 | 2 | 6 | 25 | - | - | - | 3 | - | - | - | - |
| Greenwich East W & H | | 24608 | 1065 | 868 | 151 | 274 | - | 6 | 5 | 17 | 12 | - | - | - | 13 | - | - | - | - |
| Eltham H | | 50484 | 139 | 53 | 8 | 20 | - | - | 1 | 1 | 1 | - | - | - | - | - | - | - | - |
| Lee H | | 21559 | 496 | 247 | 43 | 89 | - | 1 | - | 2 | 7 | - | - | - | 1 | - | - | - | - |
| Lewisham WH | | 19865 | 841 | 479 | 106 | 165 | - | 10 | 7 | 12 | 18 | - | - | - | 6 | - | - | - | - |
| Sydenham H | | 28076 | 835 | 493 | 109 | 115 | - | 8 | 1 | 18 | 34 | - | - | - | 3 | - | - | - | - |
| Charlton H | | 10930 | 286 | 186 | 28 | 55 | - | - | 2 | 2 | 6 | - | - | - | - | - | - | - | - |
| Woolwich Dockyard | | 17617 | 544 | 252 | 77 | 64 | - | 2 | 1 | 3 | 6 | - | - | - | 1 | - | - | - | - |
| Woolwich Arsenal HH | | 19048 | 743 | 485 | 73 | 48 | - | 7 | 3 | - | 18 | - | - | - | 4 | - | - | - | - |
| Plumstead West H | | 14009 | 504 | 194 | 42 | 60 | - | - | - | 3 | 7 | - | - | - | - | - | - | - | - |
| Plumstead East W | | 19241 | 1159 | 582 | 147 | 127 | - | 1 | 1 | 16 | 24 | - | - | - | 2 | - | - | - | - |
| Metropolitan Asylum Hospital | | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - |
| Ship, Deptford | | - | - | 4 | - | - | - | 4 | - | - | - | - | - | - | - | - | - | - | - |
| Northern Hospital, Edmonton | | - | - | 22 | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - |
| Plumstead Fv. Hosp., West Ham | | - | - | 8 | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - |

The following WAREHOUSE Establishments receive inmates from other Districts than the one in which they stand, and are indicated in the above Table by *w* :—

| | |
|---|---|
| Marylebone Infirmary in Kensington Town sub-district. | Stepney Workhouse in Bromley sub-district. |
| Central London Sick Asylum in Tottenham-court sub-district. | Poplar & Stepney Sick Asylum " " |
| Holborn Infirmary in Upper Holloway sub-district. | Westminster Union Industrial School in West Battersea sub-district. |
| London City Workhouse in Hackney sub-district. | St. Saviour's Infirmary in Camberwell sub-district. |
| Holborn " " Hoxton New Town sub-district. | Metropolitan Asylum District Hospitals in Fulham, Hampstead, Hackney, Brixton, St. Paul Deptford, Dartford, Edmonton, and West Ham sub-districts. |
| Whitechapel " " Mile End Old Town Eastern sub-dist. | |
| " " Mile End Old Town Eastern sub- | |
| London City " " dist. and Bromley sub-district. | |

* Private Lunatic Asylums in which paupers are received.

TABLE 18.—OUTER RING.—AREA; POPULATION; and BIRTHS and DEATHS Registered during the 52 Weeks of 1888.

| District and Sub-district Numbers. | REGISTRATION SUB-DISTRICTS. | Area in Acres, including Tidal Water and Fore-shore. | Enumerated Population, 1881. | BIRTHS. | DEATHS. | The DEATHS registered in the 52 Weeks include | | | | | | | | | | | | | | |
|------------------------------------|--|--|------------------------------|---------|---------|---|----------------------------------|-------------|----------|----------------|-------------|-----------------|--------|------------|----------|-----------|-----|----------------|--------------------------------|----------------------|
| | | | | | | Deaths of | | Deaths from | | | | | | | | | | Inquest Cases. | Deaths in Public Institutions. | Unrecorded Causes of |
| | | | | | | Infants under 1 Year of Age. | Persons aged 40 Years & upwards. | Small-pox. | Measles. | Scarlet Fever. | Diphtheria. | Whooping-cough. | Fever. | Diarrhoea. | Cholera. | Violence. | | | | |
| LONDON—OUTER RING | | 370,924 | 950,957 | 40,371 | 19,268 | 4840 | 4932 | 1 | 312 | 180 | 353 | 904 | 174 | 494 | 10. | 539 | 998 | 2136 | 33 | |
| 30: 1 | Carshalton <i>wL</i> - - | 12228 | 21118 | 543 | 541 | 54 | 171 | - | 1 | - | - | - | - | 12 | - | 12 | 12 | 318 | - | |
| 2 | Epsom (<i>part of</i>) * <i>WwH</i> | 9971 | 10710 | 298 | 206 | 43 | 82 | - | 6 | - | - | 4 | - | 1 | - | 3 | 11 | 61 | 2 | |
| 37: 1 | Godstone (<i>part of</i>) * - | 2754 | 1235 | 44 | 35 | 5 | 13 | - | 1 | - | 7 | - | - | - | - | - | 1 | - | - | |
| 38: 1 | Croydon <i>WwHLL</i> - | 20851 | 101241 | 3237 | 1646 | 356 | 490 | - | 25 | 5 | 32 | 41 | 19 | 32 | - | 52 | 97 | 293 | 4 | |
| 2 | Mitcham <i>w</i> - - | 11697 | 17932 | 623 | 262 | 66 | 84 | - | 3 | 3 | 8 | 2 | 1 | 6 | - | 7 | 16 | 8 | 7 | |
| 39: 1 | Wimbledon <i>HHH</i> - | 3220 | 15950 | 707 | 266 | 65 | 64 | - | 4 | 2 | 5 | 8 | - | 5 | - | 4 | 9 | 6 | 4 | |
| 2 | Kingston <i>WHH</i> - - | 8549 | 36354 | 1161 | 616 | 136 | 211 | - | 3 | 13 | 6 | 8 | 2 | 9 | - | 22 | 37 | 105 | 8 | |
| 3 | Esher (<i>part of</i>) * <i>H</i> - | 6601 | 9221 | 332 | 152 | 34 | 53 | - | - | - | 3 | - | 2 | - | - | 6 | 13 | 1 | - | |
| 4 | Hampton <i>H</i> - - | 4573 | 13539 | 442 | 205 | 37 | 60 | - | - | 1 | 1 | 7 | - | 5 | 1 | 10 | 16 | 4 | - | |
| 40: 1 | Richmond <i>WH</i> - - | 2272 | 21302 | 625 | 421 | 85 | 147 | - | 8 | - | - | 17 | 3 | 12 | 1 | 14 | 27 | 87 | 3 | |
| 2 | Mortlake - - | 2941 | 12331 | 467 | 233 | 73 | 47 | - | 1 | - | 1 | 11 | - | 11 | - | 21 | 27 | - | 1 | |
| 41: 1 | Bromley (<i>part of</i>) * <i>HH</i> | 15659 | 1142 | 1191 | 425 | 106 | 127 | - | 2 | 2 | 4 | 17 | - | 17 | - | 15 | 16 | 7 | 10 | |
| 2 | Chislehurst (<i>pt. of</i>) * <i>WHH</i> | 14307 | 15814 | 599 | 279 | 65 | 96 | - | - | - | 2 | 7 | 6 | 13 | - | 8 | 9 | 51 | 6 | |
| 42: 1 | Bexley <i>H</i> - - | 13437 | 24134 | 839 | 387 | 101 | 120 | - | 2 | 1 | 2 | 13 | 3 | 4 | - | 12 | 19 | 5 | 12 | |
| 2 | Dartford (<i>Ww, pt. of</i>) | - | - | 1 | 9 | - | 1 | - | - | - | - | - | - | - | - | - | - | 9 | - | |
| 124: 1 | Sunbury <i>w</i> - - | 11055 | 11685 | 320 | 115 | 32 | 44 | - | 4 | - | 1 | 7 | 3 | 3 | - | 9 | 14 | 1 | 1 | |
| 2 | Staines <i>WH</i> - - | 13277 | 12039 | 400 | 228 | 47 | 78 | - | 2 | 1 | 8 | 9 | - | 4 | - | 3 | 9 | 41 | - | |
| 125: 1 | Hillingdon <i>WHH</i> - | 6029 | 10802 | 592 | 217 | 40 | 99 | - | - | - | 1 | 2 | 1 | 1 | 1 | 11 | 16 | 46 | - | |
| 2 | Uxbridge - - | 6178 | 5225 | 166 | 84 | 17 | 21 | - | - | - | 1 | 1 | - | - | - | 1 | 7 | - | - | |
| 3 | Hayes <i>wHL</i> - - | 14587 | 11523 | 535 | 232 | 26 | 74 | - | 4 | 4 | 2 | 3 | - | 6 | - | 8 | 12 | 117 | 2 | |
| 126: 1 | Isleworth <i>WHH</i> - | 7093 | 22727 | 776 | 447 | 94 | 153 | - | - | 3 | 2 | 18 | 2 | 7 | - | 13 | 32 | 87 | 1 | |
| 2 | Twickenham <i>HHH</i> - | 2477 | 12479 | 430 | 196 | 53 | 59 | - | - | 1 | 1 | 9 | - | 2 | - | 8 | 13 | 5 | 2 | |
| 3 | Brentford <i>HL</i> - - | 4345 | 27649 | 956 | 478 | 111 | 122 | - | - | 2 | 4 | 11 | 4 | 15 | - | 14 | 34 | 17 | 4 | |
| 4 | Chiswick - - | 1340 | 15975 | 685 | 330 | 101 | 79 | - | 8 | 2 | 1 | 16 | 1 | 11 | - | 10 | 21 | - | - | |
| 5 | Acton <i>wH</i> - - | 6093 | 22876 | 893 | 358 | 122 | 78 | - | 1 | 2 | - | 14 | - | 11 | - | 11 | 31 | 6 | - | |
| 127: 1 | Harrow <i>H</i> - - | 13809 | 12796 | 432 | 189 | 50 | 49 | - | 5 | 1 | 2 | 19 | 1 | 3 | - | 9 | 15 | 7 | 1 | |
| 2 | Edgware <i>H</i> - - | 6094 | 3749 | 92 | 39 | 8 | 13 | - | - | - | 1 | 1 | - | - | - | - | 1 | - | - | |
| 3 | Willesden - - | 4383 | 27453 | 1701 | 836 | 284 | 146 | - | 38 | 13 | 12 | 40 | 9 | 33 | - | 20 | 57 | - | 6 | |
| 4 | Hendon <i>W</i> - - | 8382 | 10484 | 495 | 275 | 58 | 84 | - | 2 | 2 | 8 | 10 | 1 | 7 | - | 7 | 13 | 83 | - | |
| 137: 1 | Bushey - - | 9331 | 6621 | 211 | 100 | 26 | 84 | - | - | 1 | 1 | 1 | - | 1 | 1 | 1 | 2 | - | 2 | |
| 2 | Watford (<i>W, part of</i>) - | - | - | - | 3 | - | 3 | - | - | - | - | - | - | 1 | - | - | - | 3 | - | |
| 128: 1 | South Mimms - - | 15599 | 6391 | 227 | 113 | 11 | 55 | - | 2 | - | - | 1 | - | 3 | - | 11 | 11 | 2 | - | |
| 2 | Barnet <i>WH</i> - - | 5433 | 10092 | 279 | 163 | 33 | 56 | - | - | 1 | 1 | 6 | 1 | - | - | 5 | 10 | 35 | - | |
| 3 | Finchley <i>HL</i> - - | 4688 | 17015 | 696 | 459 | 77 | 129 | - | 1 | 2 | 3 | 83 | - | 4 | - | 8 | 19 | 197 | - | |
| 135: 1 | Hatfield (<i>part of</i>) * | 3306 | 583 | 14 | 5 | 2 | 2 | - | - | - | - | - | - | - | - | - | - | - | - | |
| 129: 1 | Hornsey <i>H</i> - - | 3039 | 37078 | 1418 | 579 | 127 | 171 | - | 6 | 9 | 4 | 33 | 3 | 5 | - | 16 | 31 | 5 | - | |
| 2 | Tottenham <i>II</i> - - | 4612 | 46456 | 3065 | 1352 | 386 | 247 | - | 40 | 9 | 27 | 121 | 33 | 69 | 3 | 88 | 82 | 64 | 36 | |
| 3 | Edmonton <i>WwvwH</i> | 7493 | 23463 | 1013 | 573 | 139 | 166 | - | 5 | 11 | 11 | 52 | 6 | 12 | - | 8 | 84 | 116 | 5 | |
| 4 | Enfield <i>WH</i> - - | 12633 | 19104 | 974 | 455 | 120 | 100 | - | 6 | 11 | 41 | 21 | 12 | 16 | - | 8 | 18 | 17 | 8 | |
| 5 | Waltham Abbey - | 11017 | 5398 | 187 | 104 | 23 | 21 | - | 5 | 2 | 1 | 10 | 1 | 2 | - | 4 | 5 | - | 3 | |
| 6 | Cheshunt - - | 8480 | 7735 | 298 | 111 | 19 | 36 | - | 5 | 2 | 3 | - | - | 1 | - | 5 | 7 | - | 8 | |
| 130: 1 | Stratford - - | 882 | 33606 | 1581 | 683 | 228 | 121 | - | 8 | 10 | 4 | 53 | 8 | 22 | - | 17 | 24 | - | 15 | |
| 2 | West Ham <i>wvwvwH</i> | 7351 | 101053 | 6212 | 2531 | 785 | 350 | 1 | 89 | 42 | 68 | 138 | 32 | 67 | 3 | 65 | 105 | 14 | 111 | |
| 3 | Leyton <i>WwL</i> - - | 4372 | 32430 | 1915 | 1036 | 236 | 308 | - | 12 | 10 | 5 | 53 | 5 | 24 | - | 12 | 25 | 291 | 27 | |
| 4 | Walthamstow <i>HH</i> | 6520 | 28869 | 1744 | 725 | 226 | 124 | - | 7 | 3 | 63 | 45 | 7 | 30 | - | 15 | 26 | 4 | 18 | |
| 137: 1 | Chigwell (<i>part of</i>) * <i>H</i> | 11761 | 9669 | 371 | 149 | 40 | 39 | - | 2 | 3 | - | 7 | 1 | 5 | - | 6 | 8 | 2 | 1 | |
| 2 | Epping <i>W</i> - - | - | - | 1 | 5 | - | 3 | - | - | - | - | - | - | - | - | - | - | 5 | - | |
| 139: 1 | Romford (<i>part of</i>) * <i>W</i> | 6730 | 3411 | 149 | 65 | 19 | 30 | - | - | - | 2 | - | 1 | 4 | - | - | - | 26 | - | |
| 2 | Ilford - - | 8493 | 7645 | 305 | 121 | 34 | 31 | - | - | - | 12 | 4 | 3 | - | - | 3 | 5 | - | 6 | |
| 3 | Barking Town - | 4127 | 9203 | 529 | 207 | 75 | 33 | - | 4 | 6 | 2 | 25 | 5 | 6 | - | 1 | 1 | - | 22 | |

* The parts of sub-districts included within that portion of the Metropolitan Police District which forms the Outer Ring are as follow:—30: 2, the whole of Epsom sub-district, except the parishes of Ashstead and Headley (pop. 1265); 37: 1, the two parishes of Warrington and Farley in Godstone sub-district; 39: 3, the whole of Esher sub-district, except the parish of Esher (pop. 1993); 41: 1, the whole of Bromley sub-district, except the two parishes of Cudham and Knockholt (pop. 1818); 41: 2, the whole of Chislehurst sub-district, except the parish of Chislefield (pop. 947); 135: 1, only the parish of Northaw in Hatfield sub-district; 137: 1, the whole of Chigwell sub-district, except the parish of Theydon-Bals (pop. 875); 139: 1, only the parish of Dagenham in Romford sub-district; 42: 2, Dartford, 137: 2, Watford, and 137: 1, Epping sub-districts deaths belonging to the Outer Ring occurring in workhouses.

TABLE 19.—Temperature at Greenwich; Population; Total Deaths, and Deaths at Seven groups of Ages, in London, in each Week of 1888.

| POPULATION estimated to the middle of 1888 - - | | | | | 4,282,931 | 125,232 | 432,560 | 1,295,576 | 1,433,751 | 726,693 | 252,943 | 16,136 |
|--|----------------------|--------------|------------------|-----------------|----------------|---------------|---------|-----------|-----------|---------|---------|------------------|
| Number of Week. | WEEK ENDING | TEMPERATURE. | | | AGES AT DEATH. | | | | | | | |
| | | Mean. | Highest Reading. | Lowest Reading. | ALL AGES. | Under 1 Year. | 1-5 | 5-20 | 20-40 | 40-60 | 60-80 | 80 and up-wards. |
| | YEAR (of 52 Weeks) } | ° | ° | ° | | | | | | | | |
| | | 47.7 | 89.0 | 18.4 | 78,848 | 19,196 | 13,312 | 4,921 | 9,578 | 13,501 | 15,049 | 3,291 |
| | March Quarter | 36.9 | 56.5 | 18.4 | 23,424 | 4,923 | 4,074 | 1,414 | 2,713 | 4,114 | 5,074 | 1,112 |
| | June " | 51.6 | 89.0 | 26.3 | 18,029 | 4,079 | 2,732 | 1,226 | 2,388 | 3,260 | 3,560 | 784 |
| | September " | 57.6 | 87.7 | 41.4 | 17,257 | 5,370 | 2,613 | 1,035 | 2,087 | 2,767 | 2,788 | 597 |
| | December " | 44.6 | 68.4 | 24.8 | 20,138 | 4,824 | 3,893 | 1,246 | 2,390 | 3,300 | 3,627 | 793 |
| | 1888. | | | | | | | | | | | |
| 1 | January 7 | 40.2 | 49.5 | 22.1 | 1868 | 387 | 351 | 122 | 202 | 341 | 379 | 86 |
| 2 | " 14 | 38.1 | 51.0 | 29.6 | 1940 | 367 | 337 | 111 | 237 | 327 | 441 | 100 |
| 3 | " 21 | 34.7 | 49.5 | 27.1 | 2000 | 403 | 349 | 120 | 228 | 386 | 417 | 97 |
| 4 | " 28 | 40.7 | 48.6 | 29.0 | 1816 | 394 | 353 | 102 | 215 | 304 | 366 | 82 |
| 5 | February 4 | 33.7 | 49.1 | 18.4 | 1894 | 413 | 366 | 128 | 210 | 319 | 368 | 90 |
| 6 | " 11 | 43.6 | 50.8 | 33.5 | 1838 | 394 | 310 | 103 | 205 | 293 | 440 | 93 |
| 7 | " 18 | 34.1 | 41.0 | 29.8 | 1689 | 360 | 304 | 99 | 178 | 300 | 353 | 95 |
| 8 | " 25 | 29.8 | 37.8 | 19.8 | 1772 | 351 | 320 | 101 | 199 | 331 | 388 | 82 |
| 9 | March 3 | 31.5 | 40.4 | 24.0 | 1794 | 371 | 302 | 122 | 215 | 313 | 391 | 80 |
| 10 | " 10 | 42.6 | 56.5 | 27.6 | 1886 | 424 | 281 | 106 | 223 | 300 | 465 | 87 |
| 11 | " 17 | 37.2 | 52.2 | 29.0 | 1604 | 332 | 274 | 92 | 201 | 275 | 353 | 77 |
| 12 | " 24 | 34.7 | 47.2 | 27.5 | 1655 | 361 | 254 | 101 | 197 | 285 | 384 | 74 |
| 13 | " 31 | 40.0 | 52.1 | 31.5 | 1668 | 366 | 273 | 108 | 183 | 340 | 329 | 69 |
| 14 | April 7 | 37.1 | 48.9 | 26.3 | 1593 | 346 | 263 | 107 | 189 | 270 | 320 | 98 |
| 15 | " 14 | 42.2 | 63.7 | 29.3 | 1692 | 395 | 302 | 103 | 215 | 278 | 335 | 64 |
| 16 | " 21 | 48.5 | 62.6 | 38.3 | 1551 | 367 | 229 | 85 | 212 | 265 | 310 | 83 |
| 17 | " 28 | 43.7 | 62.6 | 30.5 | 1437 | 329 | 209 | 90 | 177 | 277 | 302 | 53 |
| 18 | May 5 | 49.0 | 67.7 | 36.1 | 1429 | 324 | 225 | 94 | 187 | 243 | 277 | 79 |
| 19 | " 12 | 52.3 | 71.8 | 33.8 | 1360 | 319 | 190 | 106 | 186 | 238 | 255 | 66 |
| 20 | " 19 | 55.9 | 76.8 | 37.8 | 1469 | 296 | 254 | 87 | 212 | 272 | 276 | 72 |
| 21 | " 26 | 54.0 | 73.0 | 40.6 | 1361 | 322 | 204 | 82 | 180 | 256 | 268 | 49 |
| 22 | June 2 | 55.8 | 83.0 | 35.0 | 1323 | 288 | 184 | 109 | 178 | 266 | 255 | 43 |
| 23 | " 9 | 58.9 | 89.0 | 46.5 | 1219 | 264 | 176 | 87 | 156 | 248 | 245 | 43 |
| 24 | " 16 | 57.1 | 77.0 | 46.3 | 1167 | 251 | 163 | 89 | 176 | 208 | 234 | 46 |
| 25 | " 23 | 54.2 | 73.1 | 45.5 | 1190 | 281 | 155 | 100 | 149 | 226 | 242 | 37 |
| 26 | " 30 | 61.9 | 85.0 | 49.2 | 1238 | 297 | 178 | 87 | 171 | 213 | 241 | 51 |
| 27 | July 7 | 56.4 | 70.7 | 46.2 | 1211 | 302 | 203 | 71 | 172 | 208 | 205 | 50 |
| 28 | " 14 | 55.8 | 73.4 | 42.8 | 1288 | 359 | 182 | 87 | 160 | 229 | 230 | 41 |
| 29 | " 21 | 59.4 | 74.0 | 48.6 | 1297 | 384 | 177 | 75 | 168 | 242 | 202 | 49 |
| 30 | " 28 | 60.3 | 72.9 | 49.2 | 1308 | 385 | 186 | 99 | 155 | 206 | 217 | 60 |
| 31 | August 4 | 56.9 | 73.3 | 45.8 | 1309 | 449 | 200 | 77 | 131 | 205 | 195 | 52 |
| 32 | " 11 | 63.9 | 87.7 | 47.1 | 1476 | 493 | 233 | 90 | 174 | 228 | 217 | 41 |
| 33 | " 18 | 58.4 | 74.7 | 45.2 | 1330 | 444 | 187 | 82 | 173 | 177 | 217 | 50 |
| 34 | " 25 | 60.0 | 76.4 | 45.7 | 1438 | 500 | 260 | 78 | 138 | 202 | 221 | 39 |
| 35 | September 1 | 56.6 | 70.8 | 41.5 | 1342 | 441 | 219 | 70 | 159 | 208 | 204 | 41 |
| 36 | " 8 | 57.1 | 70.4 | 45.0 | 1316 | 426 | 202 | 73 | 145 | 205 | 223 | 42 |
| 37 | " 15 | 54.5 | 74.0 | 41.4 | 1330 | 407 | 195 | 64 | 159 | 225 | 235 | 45 |
| 38 | " 22 | 57.2 | 70.0 | 47.1 | 1298 | 385 | 184 | 81 | 177 | 233 | 197 | 41 |
| 39 | " 29 | 55.8 | 68.2 | 45.6 | 1314 | 395 | 185 | 88 | 176 | 199 | 225 | 46 |
| 40 | October 6 | 42.7 | 57.0 | 29.7 | 1352 | 370 | 208 | 98 | 165 | 238 | 224 | 49 |
| 41 | " 13 | 45.0 | 59.2 | 27.9 | 1536 | 388 | 263 | 63 | 219 | 264 | 273 | 60 |
| 42 | " 20 | 43.5 | 55.7 | 31.4 | 1641 | 397 | 277 | 103 | 197 | 297 | 297 | 73 |
| 43 | " 27 | 49.2 | 68.4 | 29.7 | 1737 | 423 | 329 | 97 | 199 | 293 | 325 | 71 |
| 44 | November 3 | 50.3 | 65.1 | 43.6 | 1613 | 383 | 297 | 90 | 189 | 275 | 310 | 69 |
| 45 | " 10 | 42.1 | 55.7 | 33.5 | 1520 | 400 | 281 | 88 | 186 | 227 | 288 | 50 |
| 46 | " 17 | 50.5 | 59.4 | 40.0 | 1619 | 377 | 332 | 116 | 179 | 284 | 260 | 71 |
| 47 | " 24 | 49.0 | 55.8 | 39.4 | 1409 | 342 | 292 | 90 | 167 | 212 | 257 | 49 |
| 48 | December 1 | 45.7 | 55.8 | 36.3 | 1352 | 327 | 288 | 86 | 164 | 217 | 223 | 47 |
| 49 | " 8 | 49.1 | 58.1 | 35.6 | 1461 | 375 | 296 | 94 | 177 | 243 | 228 | 48 |
| 50 | " 15 | 38.3 | 45.0 | 24.8 | 1455 | 307 | 314 | 99 | 178 | 247 | 251 | 59 |
| 51 | " 22 | 40.4 | 51.7 | 26.4 | 1802 | 390 | 375 | 123 | 197 | 286 | 356 | 75 |
| 52 | " 29 | 42.5 | 50.4 | 32.6 | 1641 | 345 | 341 | 93 | 173 | 277 | 335 | 77 |

TABLE 20.—Deaths in 163 Public Institutions.

| | | DEATHS. | | | | | DEATHS. | | |
|--|--|---------|--------|----------|--|---------------------------------|---------|--------|----------|
| | | TOTAL. | Males. | Females. | PUBLIC INSTITUTIONS. | SUB-DISTRICT in which situated. | TOTAL. | Males. | Females. |
| TOTAL DEATHS IN 163 PUBLIC INSTITUTIONS | | 17723 | 10124 | 7694 | | | | | |
| 51 WORKHOUSES - - - - - | | 9603 | 5329 | 4274 | WORKHOUSES—continued. | | | | |
| 6 METROPOLITAN ASYLUM HOSPITALS - - - | | 683 | 345 | 338 | <i>City of London</i> { part of { 20; 2. Mile End Old Town } Eastern } 52 7 45 | | | | |
| 56 GENERAL HOSPITALS - - - - - | | 6083 | 3590 | 2503 | <i>Infirmiry</i> { part of - 21; 2. Bromley - - - 145 115 30 | | | | |
| 25 HOSPITALS FOR SPECIAL DISEASES - - - | | 634 | 863 | 271 | <i>Poplar and Stepney Sick Asylum</i> - - - 21; 2. Bromley - - - 527 317 22 | | | | |
| 6 LYING-IN HOSPITALS - - - - - { Women Children - - - | | 60 | 28 | 32 | <i>Stepney (Aged and Infirm)</i> 21; 2. Bromley - - - 13 6 7 | | | | |
| 5 MILITARY AND NAVAL HOSPITALS - - - | | 163 | 154 | 9 | <i>Poplar</i> - - - 21; 3. Poplar - - - 71 39 32 | | | | |
| 4 HOSPITALS FOR FOREIGNERS - - - - - | | 187 | 110 | 27 | <i>North Street Infirmiry</i> - 21; 3. Poplar - - - 4 2 2 | | | | |
| 8 LUNATIC ASYLUMS - - - - - | | 349 | 205 | 144 | <i>St. Saviour's</i> - - - 22; 1. Christch. Southwark. 60 59 1 | | | | |
| | | | | | <i>St. Saviour's</i> - - - 22; 4. Borough Road - 15 11 4 | | | | |
| | | | | | <i>St. Saviour's Infirmiry</i> - 22; 7. St. Peter Walworth 153 52 101 | | | | |
| | | | | | <i>St. Olave's</i> - - - 23; 1. St. Olave, Southwark. 34 16 18 | | | | |
| | | | | | <i>St. Olave's</i> - - - 23; 3. St. Mary Magdalen 90 49 41 | | | | |
| | | | | | <i>St. Olave's (Workhouse and Infirmiry)</i> 23; 5. Rotherhithe - 178 108 70 | | | | |
| | | | | | <i>Lambeth (Workhouse and Infirmiry)</i> - 24; 4. Lambeth Church 2nd 530 279 251 | | | | |
| | | | | | <i>Lambeth (Work. School)</i> - 24; 8. Norwood - - 4 2 2 | | | | |
| | | | | | <i>Wandsworth (Workhouse and Infirmiry)</i> 25; 2. West Battersea - 308 156 132 | | | | |
| | | | | | <i>Wandsworth (Garrett Lane)</i> - 25; 4. Wandsworth - 10 5 5 | | | | |
| | | | | | <i>Camberwell (Workhouse and Infirmiry)</i> - 26; 2. Camberwell - 343 187 156 | | | | |
| | | | | | <i>St. Saviour's Infirmiry</i> - 26; 2. Camberwell - - 338 235 153 | | | | |
| | | | | | <i>Camberwell (Gordon Rd.)</i> 26; 3. Peckham - - 17 6 11 | | | | |
| | | | | | <i>Greenwich (Workhouse and Infirmiry)</i> - 27; 4. Greenwich East - 298 179 119 | | | | |
| | | | | | <i>Lewisham</i> - - - 28; 3. Lewisham - - 98 53 40 | | | | |
| | | | | | <i>Woolwich (Workhouse and Infirmiry)</i> - 29; 5. Plumstead East 169 90 79 | | | | |
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| | | | | | METROPOLITAN ASYLUM HOSPITALS. | | | | |
| Paddington - - - 1a; 1. St. Mary Paddington | | 207 | 113 | 94 | <i>Western</i> - - - 2; 3. Fulham - - - 110 51 59 | | | | |
| Kensington (Workhouse and Infirmiry) - - - 1b; 1. Kensington Town - | | 363 | 194 | 169 | <i>North-Western</i> - - - 7; 1. Hampstead - - - 38 16 23 | | | | |
| Marylebone Infirmiry - 1b; 1. Kensington Town - | | 349 | 190 | 159 | <i>Eastern</i> - - - 10; 4. Hackney - - - 285 151 134 | | | | |
| Fulham - - - 2; 3. Fulham - - - | | 239 | 115 | 124 | <i>South-Western</i> - - - 24; 7. Brixton - - - 13 5 8 | | | | |
| Chelsea (Workhouse and Infirmiry) - - - 3; 2. Chelsea North-west | | 232 | 124 | 108 | <i>South-Eastern</i> - - - 27; 1. St. Paul Deptford - 208 107 101 | | | | |
| St. George's (Fulham Road) - - - 4; 1. Mayfair - - - | | 337 | 237 | 150 | <i>Hospital Ship</i> - - - 42; 2. Dartford - - - 4 3 1 | | | | |
| St. George's (Wallis's yard) - - - 4; 2. Belgrave - - - | | 2 | 1 | 1 | <i>Northern</i> - - - 129; 3. Edmonton - - - 22 11 11 | | | | |
| Westminster - - - 5; 1. St. James Westm. | | 79 | 80 | 49 | <i>Plaistow</i> - - - 186; 2. West Ham - - - 3 2 2 | | | | |
| | | | | | | | | | |
| Marylebone - - - 6; 3. Rectory, Maryleb. - | | 84 | 45 | 39 | | | | | |
| Hampstead - - - 7; 1. Hampstead - - - | | 60 | 26 | 34 | | | | | |
| Central London Sick Asylum - - - 8; 2. Tottenham Court | | 163 | 112 | 51 | | | | | |
| Panorama - - - 8; 5. Camden Town - | | 401 | 175 | 226 | | | | | |
| Panorama Infirmiry (Highgate) 8; 6. Kentish Town - | | 256 | 159 | 97 | | | | | |
| Islington (Workhouse and Infirmiry) - - - 9; 1. Upper Holloway | | 450 | 229 | 221 | | | | | |
| Holborn Infirmiry - - - 9; 1. Upper Holloway | | 261 | 173 | 88 | | | | | |
| Hackney (Workhouse and Infirmiry) - - - 10; 4. Hackney - - - | | 330 | 180 | 150 | | | | | |
| City of London - - - 10; 4. Hackney - - - | | 14 | 4 | 10 | | | | | |
| | | | | | | | | | |
| St. Giles - - - 11; 2. St. Giles South - | | 170 | 94 | 76 | | | | | |
| Strand - - - 120; 3. Edmonton - - - | | 76 | 38 | 38 | | | | | |
| Holborn - - - 13; 2. St. Andrew Eastern | | 72 | 51 | 21 | | | | | |
| Holborn - - - 33; 2. Mitcham - - - | | 36 | 30 | 6 | | | | | |
| City of London - - - 14; 4. St. Bride - | | 8 | 6 | 2 | | | | | |
| Holborn Infirmiry - - - 15; 3. Hoxton New Town | | 309 | 151 | 158 | | | | | |
| Shoreditch (Workhouse and Infirmiry) - - - 15; 5. Haggerston - - - | | 328 | 161 | 167 | | | | | |
| Bethnal Green - - - 16; 2. Green - - - | | 389 | 233 | 156 | | | | | |
| Whitechapel Infirmiry - 17; 2. Mile End New Town | | 343 | 222 | 124 | | | | | |
| St. George-in-the-East (Workh. and Infirm.) 18; 2. St. John - | | 253 | 162 | 91 | | | | | |
| Mile End Old Town - { 20; 2. Mile End Old Town } Eastern - - - | | 229 | 105 | 124 | | | | | |
| Mile End School - - - { 20; 2. Mile End Old Town } Eastern - - - | | 1 | 1 | - | | | | | |
| Whitechapel (South Grove) - - - { 20; 2. Mile End Old Town } Eastern - - - | | 2 | | 2 | | | | | |
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registered during the 52 Weeks of 1888.

| PUBLIC INSTITUTIONS. | SUB-DISTRICT in which situated. | DEATHS. | | | PUBLIC INSTITUTIONS. | SUB-DISTRICT in which situated. | DEATHS. | | |
|---|----------------------------------|---------|--------|----------|----------------------|---------------------------------|---------|--------|----------|
| | | TOTAL. | Males. | Females. | | | TOTAL. | Males. | Females. |
| GENERAL HOSPITALS—continued. | | | | | | | | | |
| Samaritan Free | 6; 3. Rector's Marylebone | 19 | 1 | 18 | | | | | |
| St. Peter's Home (Kilburn) | 7; 1. Hampstead | 23 | 2 | 21 | | | | | |
| Home | 7; 1. Hampstead | 7 | 1 | 6 | | | | | |
| University College | 8; 2. Tottenham Court | 285 | 164 | 121 | | | | | |
| Home | 8; 2. Tottenham Court | 9 | 6 | 3 | | | | | |
| Medical Surgical Home | 8; 2. Tottenham Court | 1 | 1 | — | | | | | |
| Royal Free | 8; 3. Gray's Inn Lane | 41 | 89 | 52 | | | | | |
| Temperance | 8; 4. Somers Town | 54 | 33 | 21 | | | | | |
| North-west London | 8; 5. Camden Town | 42 | 26 | 16 | | | | | |
| Great Northern Central | 9; 1. Upper Holloway | 55 | 37 | 18 | | | | | |
| Great Northern | 9; 2. Islington, South-West | 8 | 5 | 3 | | | | | |
| Millmay Memorial | 9; 4. Highbury | 14 | 8 | 6 | | | | | |
| Incurables | 9; 4. Highbury | 13 | 6 | 7 | | | | | |
| Invalid Asylum | 10; 1. Stoke Newington | 3 | — | 3 | | | | | |
| Metropolitan Free | 10; 3. West Hackney | 26 | 15 | 11 | | | | | |
| Charing Cross | 12; 1. St. Martin-in-the-Fields | 196 | 137 | 59 | | | | | |
| King's College | 12; 3. St. Clement Dances | 193 | 108 | 87 | | | | | |
| London Homoeopathic | 13; 1. St. George the Martyr | 38 | 18 | 20 | | | | | |
| St. John and St. Elizabeth's | 13; 1. St. George the Martyr | 27 | — | 27 | | | | | |
| For Children | 13; 1. St. George the Martyr | 154 | 84 | 70 | | | | | |
| City Police | 14; 1. St. Botolph | 3 | 3 | — | | | | | |
| St. Bartholomew's | 14; 3. St. Sepulchre | 714 | 442 | 272 | | | | | |
| Convent | 15; 2. St. Leonard | 8 | 3 | 5 | | | | | |
| North-Eastern (Children) | 15; 5. Haggerston | 116 | 57 | 59 | | | | | |
| Millmay Medical Mission | 16; 1. Hackney Road | 23 | 14 | 9 | | | | | |
| London | 17; 3. Whitechapel Church | 809 | 509 | 300 | | | | | |
| Wilfred Cottage Hospital | 17; 5. Aldgate | 1 | — | 1 | | | | | |
| East London (Children) | 19; 1. Shadwell | 220 | 116 | 104 | | | | | |
| Poplar | 21; 2. Bromley | 51 | 44 | 7 | | | | | |
| St. John's | 21; 3. Poplar | 16 | 5 | 11 | | | | | |
| Evelina (Children) | 22; 4. Borough Road | 92 | 41 | 51 | | | | | |
| Guy's | 23; 1. St. Olave | 509 | 327 | 182 | | | | | |
| Royal Infirmary (Women and Children) | 24; 1. Waterloo 1st | 20 | 6 | 14 | | | | | |
| St. Thomas's | 21; 3. Lambeth Church 1st | 557 | 345 | 214 | | | | | |
| Bolingbroke House | 25; 2. West Battersea | 4 | 2 | 2 | | | | | |
| British Home for Incurables | 25; 3. Clapham | 3 | 2 | 1 | | | | | |
| Royal Hospital for Incurables | 25; 4. Wandsworth | 4 | 1 | 3 | | | | | |
| Miller Memorial | 27; 3. Greenwich West | 30 | 16 | 14 | | | | | |
| Cottage Hospital | 27; 4. Greenwich East | 9 | 1 | 8 | | | | | |
| St. John's | 28; 2. Lee | 5 | 3 | 2 | | | | | |
| Home for Sick Children | 28; 4. Sydenham | 5 | 2 | 3 | | | | | |
| HOSPITALS FOR SPECIAL DISEASES. | | | | | | | | | |
| Look | 1a; 1. St. Mary Paddington | 5 | — | 5 | | | | | |
| Consumption & Disease of Chest | 1b; 2. Brompton | 114 | 73 | 41 | | | | | |
| Cancer | 3; 2. Chelsea North-west | 116 | 87 | 29 | | | | | |
| For Women | 3; 2. Chelsea North-west | 101 | 36 | 65 | | | | | |
| Diseases of Women and Children | 4; 4. St. John Westminster | 10 | — | 10 | | | | | |
| Diseases of Throat | 5; 1. S. James Westminster | 3 | — | 3 | | | | | |
| For Women | 5; 2. St. Anne Soho | 9 | 5 | 4 | | | | | |
| Heart diseases | 5; 2. St. Anne Soho | 9 | — | 9 | | | | | |
| Skin Hospital | 5; 2. St. Anne Soho | 9 | 4 | 5 | | | | | |
| | 5; 2. St. Anne Soho | 1 | — | 1 | | | | | |
| HOSPITALS FOR SPECIAL DISEASES—continued. | | | | | | | | | |
| St. Agnes (Consumption) | 6; 1. All Souls Marylebone | 4 | — | 4 | | | | | |
| Home for Consumptive Females | 6; 4. St. Mary Marylebone | 1 | — | 1 | | | | | |
| New (Women) | 6; 5. Christch. Marylebone | 6 | — | 6 | | | | | |
| Incurables | 6; 5. Christ Church, Marylebone | 1 | — | 1 | | | | | |
| Epilepsy, &c. | 6; 6. St. John (Marylebone) | 4 | 3 | 1 | | | | | |
| North London (Consumption) | 7; 1. Hampstead | 22 | 17 | 5 | | | | | |
| St. Saviour's (Cancer) | 8; 1. Regent's Park | 3 | — | 3 | | | | | |
| Central London Throat and Ear | 8; 3. Gray's Inn Lane | 8 | 7 | 1 | | | | | |
| London Fever | 9; 2. Islington South-west | 22 | 10 | 12 | | | | | |
| St. Peter's (Stone, &c.) | 12; 2. St. Mary-le-Strand | 4 | 4 | — | | | | | |
| National for Paralyzed and Epileptic | 13; 1. St. George the Martyr | 24 | 15 | 9 | | | | | |
| Alexandra (Hip Diseases) | 13; 1. St. George the Martyr | 7 | 3 | 4 | | | | | |
| St. Mark's (Fistula) | 13; 8. Old Street | 4 | 3 | 1 | | | | | |
| Royal for Dis. of Chest | 13; 9. City Road | 53 | 22 | 21 | | | | | |
| Royal London Ophthalmic | 14; 6. Broad Street | 2 | — | 2 | | | | | |
| City of London for Diseases of the Chest | 16; 2. Green | 92 | 64 | 28 | | | | | |
| LYING-IN HOSPITALS. | | | | | | | | | |
| St. John the Divine | 3; 2. Chelsea North-west | 1 | — | 1 | | | | | |
| Queen Charlotte's | 6; 4. St. Mary (Marylebone) | 26 | 15 | 11 | | | | | |
| British | 11; 2. St. Giles South | 5 | 1 | 4 | | | | | |
| City of London | 13; 9. City Road | 1 | — | 1 | | | | | |
| Mothers' Lying-in Home | 19; 1. Shadwell | 1 | 1 | — | | | | | |
| General (York Road) | 24; 2. Waterloo 2nd | 2 | — | 2 | | | | | |
| MILITARY AND NAVAL HOSPITALS. | | | | | | | | | |
| Station Hospitals | 4; 3. St. John Westminster | 12 | 12 | — | | | | | |
| Seamen's | 27; 4. Greenwich East | 103 | 89 | 4 | | | | | |
| Herbert | 29; 1. Charlton | 40 | 40 | — | | | | | |
| Garrison Female | 29; 3. Woolwich Arsenal | 6 | 1 | 5 | | | | | |
| Arsenal Infirmary | 29; 3. Woolwich Arsenal | 2 | 2 | — | | | | | |
| HOSPITALS FOR FOREIGNERS. | | | | | | | | | |
| French | 5; 2. St. Anne Soho | 18 | 17 | 1 | | | | | |
| German | 10; 4. Hackney | 103 | 80 | 25 | | | | | |
| Italian | 18; 1. St. George the Martyr | 7 | 7 | — | | | | | |
| Spanish and Portuguese Jews | 20; 2. Mile End Old Town Eastern | 7 | 6 | 1 | | | | | |
| LUNATIC ASYLUMS.* | | | | | | | | | |
| St. Luke's Hospital | 13; 9. City Road | 4 | 2 | 2 | | | | | |
| Hoxton House * | 15; 2. St. Leonard | 70 | 34 | 36 | | | | | |
| Bethnal House * | 16; 2. Green | 52 | 36 | 16 | | | | | |
| Grove Hall | 21; 1. Bow | 12 | 9 | 3 | | | | | |
| Bethlehem Hospital | 22; 5. London Road | 29 | 19 | 10 | | | | | |
| Surrey County | 25; 4. Wandsworth | 100 | 61 | 39 | | | | | |
| Peckham House * | 26; 2. Camberwell | 49 | 28 | 21 | | | | | |
| Camberwell House * | 26; 2. Camberwell | 23 | 16 | 17 | | | | | |

* LUNATIC ASYLUMS.—Private Lunatic Asylums are excluded from this list, except those in which pauper lunatics are received, which are marked thus *.

Years 1885-1888; and the AVERAGE WEEKLY Numbers from these DISEASES during the 1840-1888.

| WHOOPIING-COUGH. | | | | FEVER. | | | | DIARRHŒA. | | | | WEEKLY AVERAGE in 49 Years, 1840-88. | | | | | | | YEAR. |
|------------------|------|------|------|--------|------|------|------|-----------|------|------|------|---|----------|-------------------|-------------|---------------------|--------|-----------|-----------|
| 1885 | 1886 | 1887 | 1888 | 1885 | 1886 | 1887 | 1888 | 1885 | 1886 | 1887 | 1888 | Small-pox. | Measles. | Scarlet Fever. | Diphtheria. | Whooping- cough. | Fever. | Diarrhœa. | |
| 2479 | 2834 | 2928 | 2087 | 695 | 701 | 672 | 720 | 2657 | 3950 | 3773 | 2176 | 18 | 32 | 46 | 11 | 47 | 36 | 50 | |
| 607 | 1551 | 443 | 1617 | 152 | 145 | 144 | 243 | 133 | 201 | 176 | 151 | 22 | 29 | 37 | 11 | 64 | 35 | 13 | March Qr. |
| 662 | 786 | 834 | 799 | 165 | 121 | 86 | 150 | 271 | 244 | 209 | 240 | 22 | 36 | 32 | 10 | 55 | 32 | 19 | June " |
| 541 | 295 | 823 | 348 | 186 | 197 | 178 | 134 | 2042 | 3132 | 3200 | 1439 | 13 | 27 | 47 | 11 | 32 | 35 | 144 | Sept. " |
| 669 | 202 | 828 | 223 | 192 | 238 | 264 | 193 | 211 | 373 | 188 | 346 | 15 | 37 | 66 | 14 | 35 | 41 | 24 | Dec. " |
| 38 | 118 | 17 | 120 | 16 | 16 | 17 | 31 | 11 | 17 | 10 | 12 | 22 | 41 | 48 | 12 | 55 | 33 | 13 | Week. |
| 40 | 103 | 32 | 152 | 9 | 15 | 11 | 23 | 8 | 10 | 13 | 11 | 22 | 37 | 48 | 11 | 57 | 38 | 14 | 1 |
| 49 | 94 | 31 | 138 | 10 | 11 | 14 | 27 | 8 | 13 | 13 | 15 | 24 | 33 | 47 | 10 | 61 | 36 | 13 | 2 |
| 60 | 118 | 31 | 168 | 15 | 8 | 11 | 14 | 12 | 12 | 22 | 11 | 22 | 29 | 42 | 11 | 67 | 36 | 13 | 3 |
| 41 | 121 | 40 | 177 | 8 | 12 | 15 | 29 | 9 | 17 | 12 | 15 | 24 | 26 | 38 | 12 | 68 | 36 | 14 | 4 |
| 50 | 130 | 37 | 153 | 11 | 14 | 9 | 13 | 6 | 23 | 15 | 12 | 23 | 24 | 37 | 12 | 68 | 35 | 14 | 5 |
| 43 | 140 | 41 | 122 | 14 | 11 | 6 | 13 | 11 | 14 | 14 | 8 | 22 | 23 | 35 | 11 | 65 | 35 | 13 | 6 |
| 45 | 119 | 35 | 127 | 10 | 9 | 10 | 16 | 9 | 15 | 17 | 8 | 21 | 26 | 36 | 10 | 65 | 34 | 14 | 7 |
| 37 | 125 | 29 | 94 | 10 | 9 | 5 | 15 | 7 | 23 | 11 | 10 | 21 | 26 | 34 | 10 | 64 | 32 | 14 | 8 |
| 49 | 126 | 35 | 101 | 10 | 8 | 14 | 20 | 14 | 13 | 12 | 17 | 21 | 27 | 33 | 10 | 64 | 35 | 13 | 9 |
| 45 | 120 | 42 | 92 | 15 | 11 | 10 | 12 | 12 | 23 | 16 | 10 | 19 | 29 | 29 | 10 | 64 | 36 | 12 | 10 |
| 55 | 117 | 42 | 80 | 10 | 13 | 12 | 11 | 18 | 20 | 9 | 6 | 19 | 30 | 29 | 10 | 66 | 33 | 13 | 11 |
| 55 | 120 | 31 | 93 | 14 | 8 | 10 | 14 | 8 | 11 | 12 | 16 | 19 | 32 | 31 | 10 | 69 | 36 | 12 | 12 |
| 55 | 81 | 35 | 89 | 12 | 8 | 8 | 21 | 16 | 15 | 9 | 17 | 21 | 33 | 28 | 10 | 66 | 33 | 12 | 13 |
| 46 | 94 | 53 | 103 | 17 | 10 | 8 | 9 | 7 | 15 | 4 | 19 | 22 | 33 | 29 | 12 | 67 | 34 | 12 | 14 |
| 57 | 92 | 46 | 91 | 15 | 8 | 6 | 14 | 21 | 15 | 12 | 23 | 23 | 34 | 31 | 10 | 65 | 34 | 13 | 15 |
| 51 | 100 | 59 | 80 | 2 | 11 | 4 | 7 | 16 | 9 | 10 | 17 | 23 | 35 | 28 | 11 | 61 | 33 | 12 | 16 |
| 46 | 87 | 73 | 87 | 14 | 12 | 5 | 12 | 13 | 14 | 12 | 19 | 23 | 35 | 22 | 10 | 59 | 33 | 13 | 17 |
| 57 | 76 | 59 | 52 | 16 | 7 | 4 | 10 | 9 | 15 | 8 | 14 | 22 | 36 | 31 | 10 | 59 | 31 | 12 | 18 |
| 63 | 49 | 66 | 64 | 18 | 10 | 4 | 12 | 16 | 8 | 12 | 15 | 24 | 36 | 30 | 10 | 56 | 32 | 13 | 19 |
| 50 | 41 | 73 | 64 | 15 | 8 | 5 | 13 | 20 | 12 | 10 | 9 | 24 | 37 | 33 | 10 | 55 | 32 | 14 | 20 |
| 46 | 42 | 75 | 37 | 15 | 13 | 6 | 9 | 11 | 15 | 12 | 19 | 21 | 40 | 34 | 11 | 51 | 32 | 16 | 21 |
| 39 | 36 | 74 | 33 | 8 | 8 | 9 | 9 | 23 | 14 | 9 | 18 | 22 | 39 | 35 | 10 | 47 | 32 | 18 | 22 |
| 42 | 28 | 66 | 34 | 8 | 9 | 10 | 9 | 24 | 28 | 20 | 16 | 21 | 39 | 31 | 10 | 43 | 32 | 23 | 23 |
| 46 | 26 | 79 | 33 | 13 | 9 | 7 | 15 | 44 | 41 | 30 | 18 | 21 | 39 | 34 | 11 | 43 | 30 | 34 | 24 |
| 59 | 34 | 76 | 27 | 12 | 8 | 10 | 10 | 61 | 43 | 52 | 36 | 20 | 37 | 34 | 11 | 42 | 31 | 48 | 25 |
| 51 | 33 | 86 | 31 | 11 | 10 | 15 | 9 | 110 | 156 | 133 | 51 | 18 | 36 | 37 | 10 | 40 | 32 | 79 | 26 |
| 77 | 30 | 87 | 32 | 20 | 12 | 8 | 13 | 209 | 315 | 312 | 72 | 16 | 34 | 39 | 10 | 39 | 33 | 128 | 27 |
| 51 | 32 | 100 | 33 | 12 | 6 | 9 | 8 | 284 | 370 | 483 | 62 | 16 | 33 | 40 | 10 | 39 | 32 | 178 | 28 |
| 47 | 31 | 92 | 30 | 10 | 17 | 9 | 16 | 348 | 411 | 517 | 89 | 15 | 33 | 42 | 10 | 37 | 33 | 216 | 29 |
| 41 | 28 | 81 | 25 | 14 | 14 | 11 | 9 | 309 | 373 | 436 | 121 | 13 | 32 | 42 | 9 | 34 | 31 | 209 | 30 |
| 44 | 12 | 61 | 27 | 17 | 20 | 19 | 7 | 222 | 270 | 412 | 138 | 13 | 28 | 45 | 10 | 33 | 33 | 195 | 31 |
| 43 | 20 | 50 | 20 | 16 | 12 | 14 | 5 | 163 | 248 | 316 | 162 | 13 | 28 | 44 | 10 | 29 | 34 | 180 | 32 |
| 45 | 22 | 51 | 28 | 17 | 11 | 13 | 7 | 121 | 191 | 191 | 192 | 13 | 26 | 48 | 11 | 29 | 34 | 162 | 33 |
| 30 | 18 | 42 | 21 | 8 | 20 | 10 | 11 | 83 | 176 | 132 | 144 | 12 | 24 | 49 | 11 | 28 | 36 | 144 | 34 |
| 39 | 26 | 50 | 32 | 14 | 15 | 20 | 12 | 62 | 191 | 107 | 131 | 12 | 21 | 53 | 11 | 28 | 36 | 125 | 35 |
| 25 | 18 | 53 | 31 | 12 | 17 | 17 | 13 | 40 | 172 | 73 | 122 | 11 | 19 | 55 | 12 | 27 | 38 | 103 | 36 |
| 26 | 19 | 36 | 22 | 17 | 17 | 16 | 11 | 49 | 146 | 45 | 78 | 12 | 20 | 56 | 12 | 26 | 40 | 83 | 37 |
| 22 | 6 | 34 | 18 | 18 | 26 | 17 | 13 | 42 | 113 | 43 | 77 | 10 | 19 | 66 | 12 | 25 | 39 | 70 | 38 |
| 34 | 11 | 38 | 5 | 20 | 19 | 15 | 9 | 35 | 67 | 18 | 72 | 12 | 22 | 69 | 14 | 26 | 39 | 53 | 39 |
| 29 | 10 | 27 | 18 | 10 | 22 | 17 | 14 | 27 | 59 | 24 | 43 | 12 | 24 | 70 | 13 | 25 | 40 | 45 | 40 |
| 31 | 8 | 36 | 12 | 11 | 21 | 18 | 20 | 21 | 51 | 11 | 42 | 11 | 27 | 72 | 14 | 26 | 42 | 36 | 41 |
| 36 | 9 | 44 | 18 | 10 | 31 | 17 | 19 | 17 | 30 | 16 | 30 | 13 | 23 | 73 | 13 | 27 | 42 | 28 | 42 |
| 29 | 19 | 44 | 19 | 11 | 20 | 26 | 22 | 8 | 31 | 20 | 34 | 12 | 32 | 74 | 12 | 30 | 42 | 24 | 43 |
| 39 | 12 | 33 | 15 | 12 | 22 | 18 | 14 | 10 | 31 | 12 | 18 | 15 | 36 | 70 | 14 | 29 | 40 | 20 | 44 |
| 42 | 18 | 54 | 17 | 27 | 19 | 25 | 15 | 13 | 23 | 11 | 16 | 16 | 38 | 71 | 14 | 34 | 42 | 19 | 45 |
| 47 | 11 | 75 | 19 | 15 | 15 | 18 | 17 | 16 | 13 | 18 | 18 | 15 | 41 | 69 | 16 | 35 | 41 | 16 | 46 |
| 58 | 20 | 67 | 20 | 19 | 7 | 24 | 12 | 12 | 16 | 14 | 13 | 17 | 46 | 67 | 14 | 38 | 41 | 15 | 47 |
| 58 | 19 | 70 | 13 | 8 | 19 | 31 | 13 | 16 | 12 | 12 | 19 | 17 | 45 | 61 | 14 | 42 | 41 | 15 | 48 |
| 72 | 19 | 106 | 14 | 18 | 13 | 20 | 18 | 6 | 12 | 12 | 11 | 19 | 46 | 61 | 14 | 46 | 42 | 14 | 49 |
| 78 | 19 | 104 | 25 | 11 | 12 | 16 | 12 | 13 | 13 | 8 | 16 | 19 | 49 | 53 | 14 | 49 | 39 | 13 | 50 |
| 116 | 27 | 130 | 28 | 20 | 18 | 19 | 8 | 17 | 15 | 12 | 14 | 20 | 46 | 51 | 14 | 53 | 37 | 13 | 51 |
| - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | 52 |
| - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | 53 |

* The weekly averages for scarlet fever and diphtheria relate to the 29 years 1860-88.

TABLE 22.—Births and Deaths Registered in London, and Meteorology at Greenwich, in each Week of 1888.

| No. of Week. | Week ending | BIRTHS. | | | DEATHS. | | | Mean Temperature of the Air. | Mean of the | | Degree of Humidity (complete saturation = 100). | Fall of Rain in Inches. | Mean Hourly Amount of Horizontal Movement of the Air in each Week. | Sun Above Horizon in Hours. | Registered Sunshine in Hours. |
|--------------|-------------|---------|--------|--------|---------|--------|--------|------------------------------|--------------------------------------|-------------------------------------|---|-------------------------|--|-----------------------------|-------------------------------|
| | | Total. | Males. | Femls. | Total. | Males. | Femls. | | Highest Readings of the Thermometer. | Lowest Readings of the Thermometer. | | | | | |
| 1888. | | | | | | | | | | | | | | | |
| 1 | Jan. 7 | 2845 | 1484 | 1361 | 1868 | 944 | 924 | 40.2 | 44.8 | 35.4 | 88 | 0.40 | 12.4 | 55.5 | 4.1 |
| 2 | " 14 | 2556 | 1293 | 1263 | 1940 | 961 | 979 | 38.1 | 41.4 | 34.3 | 97 | 0.02 | 6.3 | 56.9 | 0.0 |
| 3 | " 21 | 2688 | 1304 | 1384 | 2000 | 1021 | 979 | 34.7 | 37.5 | 30.7 | 86 | 0.21 | 12.7 | 58.7 | 2.5 |
| 4 | " 28 | 2715 | 1382 | 1333 | 1816 | 878 | 938 | 40.7 | 44.6 | 36.8 | 83 | 0.10 | 18.4 | 61.1 | 3.0 |
| 5 | Feb. 4 | 2688 | 1371 | 1317 | 1894 | 958 | 936 | 33.7 | 38.8 | 27.6 | 78 | 0.17 | 12.7 | 63.7 | 11.1 |
| 6 | " 11 | 2830 | 1383 | 1447 | 1838 | 914 | 924 | 43.6 | 48.4 | 38.9 | 83 | 0.26 | 13.7 | 66.5 | 1.8 |
| 7 | " 18 | 2669 | 1298 | 1271 | 1689 | 841 | 848 | 34.1 | 38.1 | 31.1 | 82 | 0.38 | 15.2 | 69.6 | 5.6 |
| 8 | " 25 | 2473 | 1268 | 1265 | 1772 | 874 | 898 | 29.8 | 33.9 | 25.9 | 76 | 0.21 | 19.0 | 72.8 | 6.0 |
| 9 | March 3 | 2778 | 1439 | 1339 | 1794 | 910 | 884 | 31.5 | 35.9 | 27.5 | 76 | 0.02 | 15.6 | 75.7 | 10.4 |
| 10 | " 10 | 2583 | 1375 | 1208 | 1886 | 928 | 958 | 42.6 | 48.8 | 36.9 | 79 | 0.30 | 13.8 | 78.7 | 6.5 |
| 11 | " 17 | 2629 | 1352 | 1277 | 1604 | 793 | 811 | 37.2 | 43.2 | 32.7 | 81 | 0.95 | 17.5 | 81.9 | 10.8 |
| 12 | " 24 | 2522 | 1284 | 1238 | 1655 | 832 | 823 | 34.7 | 40.6 | 30.4 | 80 | 0.66 | 17.3 | 85.2 | 11.3 |
| 13 | " 31 | 2492 | 1288 | 1204 | 1668 | 828 | 840 | 40.0 | 47.5 | 34.5 | 87 | 0.87 | 11.1 | 88.4 | 11.2 |
| 14 | April 7 | 2588 | 1305 | 1283 | 1593 | 841 | 752 | 37.1 | 47.0 | 29.3 | 78 | 0.08 | 10.3 | 91.7 | 29.0 |
| 15 | " 14 | 2831 | 1442 | 1389 | 1692 | 882 | 810 | 42.2 | 50.3 | 35.3 | 73 | 0.11 | 13.3 | 94.9 | 21.5 |
| 16 | " 21 | 2579 | 1289 | 1290 | 1551 | 792 | 759 | 48.5 | 59.0 | 41.2 | 82 | 0.65 | 12.3 | 98.0 | 35.7 |
| 17 | " 28 | 2577 | 1297 | 1280 | 1437 | 750 | 687 | 43.7 | 51.4 | 37.8 | 86 | 0.67 | 16.9 | 100.9 | 8.0 |
| 18 | May 5 | 2650 | 1328 | 1322 | 1429 | 719 | 710 | 49.0 | 53.9 | 40.2 | 68 | 0.16 | 19.8 | 103.8 | 43.2 |
| 19 | " 12 | 2574 | 1308 | 1266 | 1360 | 715 | 645 | 52.3 | 61.1 | 41.2 | 69 | 0.00 | 10.1 | 106.6 | 51.0 |
| 20 | " 19 | 2364 | 1256 | 1108 | 1469 | 754 | 715 | 55.9 | 68.0 | 45.6 | 69 | 0.32 | 11.8 | 109.0 | 39.4 |
| 21 | " 26 | 2278 | 1151 | 1127 | 1361 | 708 | 653 | 54.0 | 66.0 | 43.2 | 68 | 0.00 | 12.3 | 111.4 | 62.3 |
| 22 | June 2 | 2491 | 1275 | 1216 | 1323 | 697 | 626 | 55.8 | 69.1 | 44.3 | 69 | 0.16 | 11.1 | 113.2 | 43.8 |
| 23 | " 9 | 2430 | 1225 | 1205 | 1219 | 637 | 582 | 58.9 | 71.0 | 49.8 | 77 | 0.17 | 10.2 | 114.6 | 21.2 |
| 24 | " 16 | 2399 | 1260 | 1139 | 1167 | 628 | 539 | 57.1 | 69.5 | 47.8 | 72 | 0.54 | 10.9 | 115.5 | 51.7 |
| 25 | " 23 | 2534 | 1277 | 1257 | 1190 | 609 | 581 | 54.2 | 61.8 | 48.1 | 86 | 0.27 | 10.4 | 116.2 | 17.7 |
| 26 | " 30 | 2289 | 1128 | 1161 | 1238 | 636 | 602 | 61.9 | 72.3 | 54.3 | 83 | 2.37 | 10.2 | 115.7 | 29.9 |
| 27 | July 7 | 2348 | 1206 | 1142 | 1211 | 627 | 584 | 56.4 | 65.3 | 50.8 | 87 | 0.00 | 12.2 | 114.9 | 18.5 |
| 28 | " 14 | 2520 | 1280 | 1240 | 1288 | 660 | 628 | 55.8 | 64.7 | 48.2 | 77 | 0.44 | 11.2 | 113.8 | 23.2 |
| 29 | " 21 | 2385 | 1242 | 1143 | 1297 | 681 | 616 | 59.4 | 68.6 | 52.8 | 88 | 1.61 | 8.3 | 112.0 | 11.8 |
| 30 | " 28 | 2353 | 1171 | 1182 | 1308 | 681 | 627 | 60.3 | 69.9 | 53.8 | 81 | 1.11 | 13.7 | 109.9 | 34.8 |
| 31 | August 4 | 2530 | 1306 | 1224 | 1309 | 663 | 646 | 56.9 | 67.5 | 50.4 | 87 | 4.29 | 10.1 | 107.4 | 22.0 |
| 32 | " 11 | 2228 | 1165 | 1063 | 1476 | 773 | 703 | 63.9 | 75.2 | 54.3 | 75 | 0.11 | 10.7 | 104.8 | 47.5 |
| 33 | " 18 | 2604 | 1333 | 1271 | 1330 | 721 | 609 | 56.4 | 67.1 | 48.6 | 77 | 0.00 | 12.4 | 101.9 | 27.8 |
| 34 | " 25 | 2401 | 1189 | 1212 | 1438 | 763 | 675 | 60.0 | 70.2 | 51.8 | 82 | 0.81 | 9.1 | 98.9 | 29.2 |
| 35 | Sept. 1 | 2508 | 1255 | 1253 | 1342 | 683 | 659 | 56.6 | 66.4 | 48.4 | 81 | 1.22 | 12.9 | 96.0 | 32.2 |
| 36 | " 8 | 2475 | 1234 | 1241 | 1316 | 670 | 646 | 57.1 | 65.9 | 51.2 | 83 | 0.16 | 12.6 | 92.6 | 20.8 |
| 37 | " 15 | 2438 | 1270 | 1218 | 1330 | 664 | 666 | 54.5 | 66.3 | 44.7 | 83 | 0.06 | 7.7 | 89.6 | 42.4 |
| 38 | " 22 | 2463 | 1261 | 1202 | 1298 | 677 | 621 | 57.2 | 66.3 | 50.0 | 81 | 0.00 | 8.8 | 86.5 | 32.6 |
| 39 | " 29 | 2595 | 1219 | 1176 | 1314 | 679 | 635 | 55.8 | 65.2 | 49.9 | 90 | 0.51 | 7.4 | 83.1 | 12.7 |
| 40 | October 6 | 2413 | 1212 | 1201 | 1352 | 701 | 651 | 42.7 | 52.6 | 33.5 | 82 | 0.11 | 10.4 | 79.6 | 33.0 |
| 41 | " 13 | 2588 | 1330 | 1258 | 1536 | 768 | 768 | 45.0 | 54.7 | 36.2 | 79 | 0.02 | 9.3 | 76.9 | 24.6 |
| 42 | " 20 | 2459 | 1280 | 1179 | 1641 | 854 | 787 | 43.5 | 53.4 | 34.4 | 87 | 0.00 | 6.3 | 73.7 | 24.5 |
| 43 | " 27 | 2666 | 1350 | 1316 | 1737 | 914 | 823 | 49.2 | 58.5 | 40.6 | 89 | 0.00 | 9.1 | 70.7 | 25.5 |
| 44 | Nov. 3 | 2373 | 1204 | 1169 | 1613 | 820 | 793 | 50.3 | 54.7 | 46.7 | 92 | 2.68 | 9.7 | 67.6 | 3.8 |
| 45 | " 10 | 2770 | 1401 | 1369 | 1520 | 781 | 739 | 42.1 | 47.0 | 37.7 | 86 | 0.20 | 13.9 | 64.7 | 12.5 |
| 46 | " 17 | 2606 | 1335 | 1271 | 1619 | 848 | 771 | 50.5 | 55.4 | 45.2 | 89 | 0.40 | 14.8 | 62.1 | 8.6 |
| 47 | " 24 | 2722 | 1354 | 1368 | 1499 | 716 | 683 | 49.0 | 53.4 | 44.9 | 81 | 0.11 | 24.7 | 59.7 | 6.2 |
| 48 | Dec. 1 | 2367 | 1180 | 1187 | 1352 | 685 | 667 | 45.7 | 49.6 | 41.6 | 89 | 1.77 | 15.3 | 57.4 | 6.0 |
| 49 | " 8 | 2644 | 1367 | 1277 | 1461 | 792 | 669 | 49.1 | 54.0 | 43.6 | 87 | 0.17 | 12.7 | 55.9 | 11.5 |
| 50 | " 15 | 2291 | 1139 | 1152 | 1455 | 733 | 722 | 33.3 | 38.8 | 27.9 | 93 | 0.00 | 4.6 | 54.8 | 3.8 |
| 51 | " 22 | 2655 | 1370 | 1285 | 1802 | 887 | 915 | 40.4 | 44.4 | 36.0 | 84 | 0.13 | 9.5 | 54.0 | 6.2 |
| 52 | " 29 | 1876 | 974 | 902 | 1641 | 846 | 795 | 42.5 | 47.3 | 30.6 | 90 | 0.66 | 14.0 | 54.3 | 4.6 |

TABLE 23.—Greenwich Meteorological Elements for the Year 1888. By J. GLAISHER, Esq., F.R.S.

| MONTHS. | Mean Reading of the Barometer. | TEMPERATURE OF THE AIR. | | | | | | | Departure from Average of 117 Years. | Mean Temperature of the Dew Point. | Mean Elastic Force of Vapour. | Weight of Vapour in a Cubic Foot of Air. | Mean additional Weight required for Saturation. | Mean Degree of Humidity, Saturation = 100. | Mean Weight of a Cubic Foot of Air. | RELATIVE PROPORTION OF WIND. | | | | Mean Amount of Cloud. | RAIN. | | | |
|-----------|--------------------------------|-------------------------|------------------|-----------------|----------------------|---------------------|-------------------|---------------------|--------------------------------------|------------------------------------|-------------------------------|--|---|--|-------------------------------------|------------------------------|-------|-----|-----|-----------------------|-------------------------|-------------------|------|------|
| | | Highest by Day. | Lowest by Night. | Range in Month. | Mean of all Highest. | Mean of all Lowest. | Mean Daily Range. | Mean for the Month. | | | | | | | | N. | E. | S. | W. | | Number of Days it fell. | Amount collected. | | |
| | | | | | | | | | | | | | | | | | | | | | | | | |
| | | | | | | | | | | | | | | | | | | | | | | | | |
| 1868. | in. | 30.053 | 51.0 | 29.1 | 28.9 | 30.0 | 29.6 | 0.4 | 30.3 | +1.2 | 30.4 | in. | 1.90 | 2.4 | 0.3 | 88 | 550 | 7 | 7 | 9 | 8 | 7.4 | 11 | 0.89 |
| January | 30.777 | 50.8 | 18.4 | 32.4 | 39.3 | 30.8 | 8.5 | 35.0 | -0.6 | 32.4 | 1.62 | 2.0 | 0.4 | 79 | 558 | 12 | 7 | 7 | 7 | 7 | 8.8 | 15 | 0.39 | |
| February | 30.432 | 56.5 | 23.4 | 31.1 | 44.4 | 33.0 | 11.4 | 38.0 | -0.1 | 32.7 | 1.86 | 2.2 | 0.5 | 81 | 548 | 18 | 6 | 7 | 10 | 8.4 | 21 | 2.78 | | |
| March | 30.707 | 67.7 | 26.3 | 41.4 | 52.6 | 36.3 | 16.2 | 43.4 | -0.7 | 37.5 | 1.87 | 2.6 | 0.6 | 79 | 547 | 10 | 6 | 7 | 8 | 7.0 | 14 | 1.61 | | |
| April | 30.879 | 76.3 | 33.8 | 43.0 | 67.9 | 45.8 | 22.1 | 56.0 | +0.5 | 43.0 | 2.27 | 3.1 | 1.4 | 69 | 540 | 7 | 6 | 9 | 9 | 5.5 | 5 | 0.64 | | |
| May | 30.752 | 87.6 | 45.5 | 42.1 | 69.2 | 49.9 | 19.4 | 58.3 | 0.0 | 50.9 | 2.73 | 4.2 | 1.3 | 77 | 539 | 9 | 5 | 8 | 8 | 6.8 | 17 | 3.35 | | |
| June | 30.600 | 74.0 | 42.8 | 31.2 | 67.2 | 51.5 | 15.7 | 57.9 | -0.8 | 52.8 | 4.00 | 4.5 | 0.9 | 88 | 530 | 6 | 3 | 10 | 12 | 8.5 | 26 | 6.75 | | |
| July | 30.812 | 87.7 | 45.2 | 42.5 | 69.4 | 50.9 | 18.5 | 59.1 | -1.8 | 52.7 | 3.99 | 4.5 | 1.1 | 80 | 531 | 6 | 3 | 10 | 12 | 7.0 | 12 | 3.73 | | |
| August | 30.968 | 74.0 | 35.5 | 28.5 | 63.3 | 48.3 | 17.0 | 55.7 | -0.8 | 50.7 | 3.70 | 4.2 | 0.9 | 85 | 538 | 10 | 5 | 7 | 8 | 6.1 | 12 | 4.39 | | |
| September | 30.824 | 68.4 | 27.0 | 41.5 | 55.2 | 37.7 | 17.5 | 46.0 | -0.3 | 41.6 | 3.83 | 3.1 | 0.6 | 85 | 547 | 10 | 5 | 6 | 10 | 4.3 | 6 | 1.30 | | |
| October | 30.621 | 59.4 | 23.5 | 35.9 | 51.5 | 35.7 | 8.8 | 47.4 | +1.6 | 43.3 | 2.80 | 2.3 | 0.7 | 81 | 541 | 2 | 9 | 12 | 7 | 7.8 | 18 | 4.00 | | |
| November | 30.809 | 58.1 | 24.8 | 33.3 | 45.6 | 32.6 | 10.0 | 40.8 | +1.7 | 38.3 | 2.7 | 2.2 | 0.2 | 91 | 552 | 3 | 6 | 15 | 7 | 6.7 | 10 | 0.92 | | |
| December | | | | | | | | | | | | | | | | | | | | | | | | |
| Means | 30.777 | 67.7 | 32.0 | 35.7 | 55.3 | 41.3 | 14.4 | 47.7 | -1.0 | 42.3 | 2.80 | 3.2 | 0.7 | 82 | 543 | 90 | 67 | 103 | 106 | 7.1 | 167 | 27.40 | | |
| | | | | | | | | | | | | | | | | | Sums. | | | | | Sum | Sum | |

TABLE 24.—METEOROLOGICAL TABLE FOR LONDON, 1888.

(Deduced from Observations, at Greenwich, under the Superintendence of the Astronomer Royal, and compiled from Quarterly Tables, furnished to the Registrar General by James Glaisher, Esq., F.R.S.)

| 1888. YEAR | Temperature of | | | | | | | | | | Elastic Force of Vapour. | | Weight of Vapour in a Cubic Foot of Air. | | Degree of Humidity. | | Reading of Barometer. | | Weight of a Cubic Foot of Air. | | Rain. | | Reading of Thermometer on Grass. | | | | | | | | | | | |
|----------------------------------|----------------|----------------------------------|-------------------|---------------------------------|------------|---------------------------------|----------------------|---------------------------------|-------|---------------------------------|---------------------------------|---------------------------------|--|---------------------------------|---------------------------------|---------------------------------|-----------------------|---------------------------------|---------------------------------|---------------------------------|-------|---------------------------------|----------------------------------|---------------------------------|------------------|---------------------------------|----------------------|---------------------------------|------------|---------------------------------|--------------------------|---------------------------------|---------------------------|--|
| | Air. | | Evapora- tion. | | Dew Point. | | Air— Daily Range. | | Mean. | | Diff. from Average of 45 Years. | | Mean. | | Diff. from Average of 45 Years. | | Mean (Sat=100). | | Diff. from Average of 45 Years. | | Mean. | | Diff. from Average of 45 Years. | | At or below 30°. | | Between 30° and 40°. | | Above 40°. | | Lowest Reading at Night. | | Highest Reading at Night. | |
| | Mean. | Diff. from Average of 115 Years. | Mean. | Diff. from Average of 45 Years. | Mean. | Diff. from Average of 45 Years. | Mean. | Diff. from Average of 45 Years. | Mean. | Diff. from Average of 45 Years. | Mean. | Diff. from Average of 45 Years. | Mean. | Diff. from Average of 45 Years. | Mean. | Diff. from Average of 45 Years. | Mean. | Diff. from Average of 45 Years. | Mean. | Diff. from Average of 45 Years. | Mean. | Diff. from Average of 45 Years. | Mean. | Diff. from Average of 45 Years. | Mean. | Diff. from Average of 45 Years. | Mean. | Diff. from Average of 45 Years. | Mean. | Diff. from Average of 45 Years. | Mean. | Diff. from Average of 45 Years. | | |
| | Mean. | Diff. from Average of 115 Years. | Mean. | Diff. from Average of 45 Years. | Mean. | Diff. from Average of 45 Years. | Mean. | Diff. from Average of 45 Years. | Mean. | Diff. from Average of 45 Years. | Mean. | Diff. from Average of 45 Years. | Mean. | Diff. from Average of 45 Years. | Mean. | Diff. from Average of 45 Years. | Mean. | Diff. from Average of 45 Years. | Mean. | Diff. from Average of 45 Years. | Mean. | Diff. from Average of 45 Years. | Mean. | Diff. from Average of 45 Years. | Mean. | Diff. from Average of 45 Years. | Mean. | Diff. from Average of 45 Years. | Mean. | Diff. from Average of 45 Years. | Mean. | Diff. from Average of 45 Years. | | |
| Winter . . . Jan, Feb, March. | 47.7 | -1.0 | -1.6 | 45.1 | -1.4 | 42.3 | -1.3 | 14.4 | -1.3 | 1.8 | -0.14 | 3.2 | -0.2 | 82 | -1 | 29.777 | +0.03 | 543 | +2 | 27.43 | +2.44 | 108 | 125 | 133 | 10.8 | 56.6 | 10.8 | 56.6 | 10.8 | 56.6 | 10.8 | 56.6 | | |
| Spring . . . April, May, June. | 51.6 | -0.7 | -0.9 | 47.7 | -1.4 | 43.8 | -1.5 | 19.2 | -0.7 | 2.5 | -0.26 | 2.2 | -0.2 | 83 | -2 | 29.754 | -0.21 | 535 | +3 | 4.56 | -0.42 | 51 | 38 | 2 | 10.8 | 42.7 | 10.8 | 42.7 | 10.8 | 42.7 | 10.8 | 42.7 | | |
| Summer do. . . July, Aug., Sept. | 57.6 | -2.1 | -2.7 | 54.7 | -1.7 | 52.1 | -0.9 | 17.1 | -2.6 | 3.90 | -0.15 | 4.4 | -0.2 | 83 | +5 | 29.800 | +0.07 | 533 | +3 | 5.50 | -0.18 | 20 | 34 | 37 | 13.6 | 55.0 | 13.6 | 55.0 | 13.6 | 55.0 | 13.6 | 55.0 | | |
| Autumn do. . . Oct., Nov., Dec. | 44.6 | +0.9 | +0.2 | 43.0 | +0.4 | 41.1 | +0.5 | 12.1 | +0.4 | 2.58 | +0.01 | 3.0 | -0.2 | 88 | -2 | 29.774 | +0.28 | 547 | 0 | 6.22 | -0.89 | 37 | 33 | 22 | 16.7 | 49.4 | 16.7 | 49.4 | 16.7 | 49.4 | 16.7 | 49.4 | | |

In this Table + and - respectively signify that the number in the preceding column are above or below the average to which these signs are affixed.

TABLE 25.—Houses, &c. supplied, and Average Daily Quantity of Water DELIVERED, by the London Water Companies in each MONTH of the Year 1888.

| COMPANIES. | NUMBER OF HOUSES, &c. SUPPLIED IN | | | | | | | | | | | |
|----------------------------------|-----------------------------------|--------------------------|--------------------------|--------------------------|--------------------------|--------------------------|--------------------------|--------------------------|--------------------------|--------------------------|--------------------------|--------------------------|
| | January. | February. | March. | April. | May. | June. | July. | August. | September. | October. | November. | December. |
| Total Houses supplied | - | - | - | - | - | - | - | - | - | - | - | - |
| FROM THAMES | 733,734 | 734,383 | 735,351 | 736,622 | 737,865 | 739,252 | 740,236 | 741,399 | 742,869 | 744,592 | 745,662 | 746,277 |
| FROM LEA AND FROM OTHER SOURCES | 353,550 380,175 | 353,920 380,453 | 354,543 381,008 | 354,964 381,658 | 355,470 382,395 | 356,318 382,934 | 356,848 383,588 | 357,392 384,007 | 358,298 384,661 | 358,784 385,808 | 359,251 386,411 | 359,673 386,604 |
| FROM THAMES. | - | - | - | - | - | - | - | - | - | - | - | - |
| CHELSEA | 34,493 | 34,460 | 34,483 | 34,474 | 34,515 | 34,559 | 34,615 | 34,653 | 34,701 | 34,717 | 34,735 | 34,764 |
| WEST MIDDLESEX | 69,950 | 69,950 | 70,146 | 70,217 | 70,231 | 70,436 | 70,486 | 70,486 | 70,737 | 70,876 | 70,969 | 71,095 |
| SOUTHWARK AND VAUXHALL | 108,801 | 108,958 | 109,104 | 109,242 | 109,411 | 109,689 | 109,755 | 109,897 | 110,235 | 110,475 | 110,525 | 110,407 |
| GRAND JUNCTION | 53,887 | 53,985 | 53,988 | 54,076 | 54,146 | 54,247 | 54,456 | 54,632 | 54,761 | 54,881 | 55,008 | 55,093 |
| LAMBETH | 86,327 | 86,658 | 86,822 | 86,961 | 87,164 | 87,397 | 87,556 | 87,724 | 87,910 | 88,097 | 88,213 | 88,314 |
| FROM LEA AND FROM OTHER SOURCES. | - | - | - | - | - | - | - | - | - | - | - | - |
| NEW RIVER | 149,579 | 140,703 | 149,841 | 150,060 | 150,241 | 150,340 | 150,557 | 150,673 | 150,810 | 151,433 | 151,674 | 151,775 |
| EAST LONDON | 160,357 | 160,534 | 160,826 | 161,137 | 161,571 | 161,950 | 162,042 | 162,402 | 162,831 | 163,145 | 163,368 | 163,588 |
| KENT | 70,239 | 70,216 | 70,311 | 70,461 | 70,583 | 70,644 | 70,789 | 70,832 | 71,011 | 71,230 | 71,363 | 71,461 |
| Total Quantities supplied | - | - | - | - | - | - | - | - | - | - | - | - |
| FROM THAMES | 155,792,903 | 154,025,254 | 153,534,723 | 153,608,044 | 168,736,939 | 175,570,123 | 169,387,002 | 172,869,355 | 168,890,449 | 161,994,888 | 157,969,825 | 153,616,885 |
| FROM LEA AND FROM OTHER SOURCES | 77,351,638 78,441,295 | 76,351,090 77,694,164 | 78,475,398 78,053,553 | 77,325,367 76,252,677 | 85,537,636 83,199,363 | 87,971,114 87,599,069 | 89,835,966 85,533,036 | 85,944,463 86,924,922 | 83,481,556 85,393,893 | 80,490,657 81,504,831 | 78,018,405 79,921,420 | 75,789,338 77,827,547 |
| FROM THAMES. | - | - | - | - | - | - | - | - | - | - | - | - |
| CHELSEA | 9,331,612 | 8,873,840 | 9,405,029 | 9,048,072 | 9,995,614 | 10,185,300 | 9,736,847 | 9,642,824 | 9,118,319 | 8,940,631 | 8,940,197 | 8,839,097 |
| WEST MIDDLESEX | 13,692,116 | 13,945,703 | 14,167,501 | 14,242,916 | 15,686,910 | 16,138,233 | 15,712,773 | 15,472,078 | 15,475,260 | 15,112,887 | 14,652,588 | 14,425,189 |
| SOUTHWARK AND VAUXHALL | 22,628,971 | 22,836,303 | 23,426,303 | 23,389,448 | 24,237,741 | 24,730,887 | 25,489,887 | 24,672,069 | 23,630,297 | 22,925,066 | 21,700,108 | 21,084,715 |
| GRAND JUNCTION | 13,131,906 | 13,090,047 | 13,211,735 | 13,063,351 | 17,566,571 | 18,391,439 | 17,003,669 | 17,291,069 | 17,009,470 | 16,388,373 | 16,046,112 | 15,896,537 |
| LAMBETH | 15,367,000 | 15,585,900 | 16,284,800 | 15,389,800 | 18,059,500 | 18,456,300 | 17,910,800 | 18,613,500 | 18,257,800 | 17,122,200 | 16,620,400 | 15,841,800 |
| FROM LEA AND FROM OTHER SOURCES. | - | - | - | - | - | - | - | - | - | - | - | - |
| NEW RIVER | 28,048,000 | 27,812,000 | 27,398,000 | 27,526,000 | 30,910,000 | 32,694,000 | 32,453,000 | 32,214,000 | 31,315,000 | 30,043,000 | 29,665,000 | 28,056,000 |
| EAST LONDON | 39,290,516 | 38,812,752 | 39,277,086 | 37,559,625 | 39,692,117 | 41,727,934 | 41,426,571 | 41,935,383 | 41,506,346 | 39,740,290 | 38,113,465 | 38,491,415 |
| KENT | 11,063,749 | 11,039,412 | 11,384,260 | 11,197,252 | 12,718,156 | 13,947,695 | 11,647,765 | 12,675,558 | 12,678,547 | 11,712,471 | 11,172,955 | 10,580,132 |

Note.—The quantities of water in the above Table include the supply for various purposes other than for domestic consumption.

TABLE 26.—Houses, &c. supplied, and Average Daily Quantity of Water DELIVERED for ALL PURPOSES and for DOMESTIC PURPOSES, by the London Water Companies during 1888.

| WATER COMPANIES. | AVERAGE NUMBER of HOUSES supplied during the Year. | AVERAGE DAILY SUPPLY OF WATER DURING THE YEAR. | | | | |
|-------------------------------------|---|---|-------------------|---------------------------------|-----------------------|-------|
| | | Delivered. | | Used for Domestic purposes.† | | |
| | | Gallons. | Cubic Metres.* | Gallons. | Gallons per House. | |
| | | | | | 1887. | 1888. |
| Total - - - | 739,870 | 162,416,368 | 737,932 | 133,181,422 | 185 | 180 |
| FROM THAMES - - - - | 356,578 | 80,884,166 | 367,494 | 66,825,016 | 196 | 186 |
| FROM LEA AND FROM OTHER SOURCES - | 383,292 | 81,532,202 | 370,438 | 66,856,406 | 174 | 174 |
| FROM THAMES. | | | | | | |
| CHELSEA - - - - - | 34,593 | 9,343,201 | 42,450 | 7,661,425 | 239 | 221 |
| WEST MIDDLESEX - - - | 70,471 | 14,914,512 | 67,763 | 12,229,900 | 178 | 174 |
| SOUTHWARK AND VAUXHALL - - | 109,653 | 23,159,058 | 105,224 | 18,990,427 | 181 | 173 |
| GRAND JUNCTION - - - | 54,418 | 16,407,620 | 74,547 | 13,454,248 | 257 | 247 |
| LAMBETH - - - - - | 87,443 | 17,059,775 | 77,510 | 13,989,016 | 175 | 160 |
| FROM LEA AND FROM OTHER SOURCES. | | | | | | |
| NEW RIVER - - - - - | 150,558 | 29,912,417 | 135,906 | 24,528,182 | 165 | 163 |
| EAST LONDON - - - - - | 161,963 | 39,881,527 | 181,200 | 32,702,852 | 195 | 202 |
| KENT - - - - - | 70,771 | 11,738,258 | 53,332 | 9,625,372 | 144 | 136 |
| Columns - - - | 1. | 2. | 3. | 4. | 5. | 6. |

* A cubic metre is equal in volume to 35·3 cubic feet, or to 220·09668 imperial gallons. It is nearly equivalent to the old English *ton* of four hogsheads, holding 35·248 cubic feet. It is in general use on the Continent; and its volume of water weighs a metric *ton*, differing inconsiderably in weight from the *ton* in common use. It is equal to 100 decalitres: thus a decalitre equals 2·2009668 gallons.

† According to returns of the London Water Companies made to the Select Committee on East London Water Bills (Session 1867), it is estimated that during the year 1866 about 82 per cent. of the total supply of water for all purposes was for domestic use; this proportion has been applied in estimating the quantities for the year 1888 in columns 4, 5, and 6, showing the gallons probably used for domestic purposes. The average daily quantity of water supplied by the London Companies during the year 1888 was 162,416,368 gallons (737,932 cubic metres, equal to about as many *tuns* by measure, *tons* by weight), of which about 133,181,422 gallons (605,104 cubic metres) were probably used for domestic purposes. The average quantity used daily for domestic purposes in each house (see Col. 6) is equal to 81·8 decalitres, and corresponds to 23·1 gallons (10·5 decalitres) to each person. The Returns of the Water Companies include uninhabited houses.

REPORT on the ANALYSES of the WATERS supplied by the METROPOLITAN WATER COMPANIES during the several MONTHS of the YEAR 1888. By Professor FRANKLAND, D.C.L., F.R.S., &c.

*Water-analysis Laboratory, The Yews, Reigate,
18th January 1889.*

SIR,

I HAVE now to report to you the results obtained by me in the monthly examination of the water supplied by the eight Metropolitan Water Companies during the year 1888. For the purpose of comparison, I have included the results obtained in a similar periodical examination of the waters supplied by the Colne Valley Water Company and by the Tottenham Local Board of Health.

Although the past year has, on the whole, been unfavourable for the purifying operations of those Companies which derive their supplies from rivers, the water delivered maintained, except in March November and December, the high quality which it has now exhibited for several years past. Even in the three months just mentioned, the river waters were well filtered and delivered in a bright and clear condition, although the Companies were not able to contend quite successfully with the excessive quantity of organic impurities which were then present in the raw water of the Thames and Lea.

All the samples examined were taken directly from the mains of the several Companies at places recommended by their respective engineers. In addition to the chemical analysis to which each sample has been submitted, the temperature of the water as it issued from the main at the time of its collection has been determined, and the appearance which it exhibited on being viewed in a two-foot tube has been recorded. The temperatures and the results of the chemical analyses are contained in the accompanying Tables A. to L.

Table A. records the temperature of the waters at the time of their collection. From this Table it will be seen that, although the average temperature differs but little for the several supplies, the monthly variation in the case of the river waters is very great, whilst the temperature of the deep-well water is practically constant throughout the year. Thus the water principally derived from the Thames and supplied by the Chelsea, West Middlesex, Southwark, Grand Junction, and Lambeth Companies varied in temperature from 3°C . ($37^{\circ}\cdot4\text{ Fahr.}$) in February to $18^{\circ}\cdot5\text{ C}$. ($65^{\circ}\cdot3\text{ Fahr.}$) in June. Again the water chiefly from the Lea, and distributed by the New River and East London Companies, fluctuated from $3^{\circ}\cdot2\text{ C}$. ($37^{\circ}\cdot8\text{ Fahr.}$) in February to 17°C . ($62^{\circ}\cdot6\text{ Fahr.}$) in June. Whilst the temperature of the deep-well water delivered by the Kent Company varied only between 12°C . ($53^{\circ}\cdot6\text{ Fahr.}$) in February and $13^{\circ}\cdot5\text{ C}$. ($56^{\circ}\cdot3\text{ Fahr.}$) in August.

This great uniformity in temperature which the Kent Company's water possesses is of no little importance, as the water remains cool and refreshing in summer and is less likely to become frozen in the service-pipes in winter.

Table B. gives the total amount of solid matters found in 100,000 parts by weight of the various waters. These solid matters are almost wholly composed of mineral substances, which in these proportions in no way diminish the fitness of water for drinking. But the salts of lime and magnesia which constitute the principal part of these mineral ingredients are objectionable, not only because they impart to the water what is known as "hardness," and thus render it unsuitable for washing, but also because they cause incrustations and deposits in steam and kitchen boilers and hot-water pipes. The small proportion of organic material which the solid matter invariably contains, is, on the other hand, of the greatest importance in connexion with the use of the water for drinking purposes. For although the actual amount of this organic matter is generally quite insignificant, yet it may be of the most objectionable character on account of its origin. Thus the water both of the Thames and the Lea receives, above the points where it is abstracted for the purpose of the metropolitan supply, various contributions of organic matter of

The amount of solid matter in the deep-well water from the chalk is considerably greater than that in the river-water, and inasmuch as this chalk water is sent out in its natural condition by the Kent Company and by the Tottenham Local Board of Health, these supplies contain more solid matter than any of the others. The Colne Valley Company, on the other hand, by treating this chalk water with lime before delivery, so reduce the solid matter that the latter scarcely exceeds one-half of that present in the river waters, and it is but little more than one-third of that in the deep-well waters either of the Kent Company or of the Tottenham Local Board of Health.

Taking the mean proportion of organic impurity contained in the Thames water delivered in 1868 as 1,000, I find that in the subsequent years, 1888 included, the following proportions were present :—

| Year. | Proportion of organic impurity present in Thames water as delivered in London. |
|-------|--|
| 1868 | 1,000 |
| 1869 | 1,016 |
| 1870 | 795 |
| 1871 | 928 |
| 1872 | 1,243 |
| 1873 | 917 |
| 1874 | 933 |
| 1875 | 1,030 |
| 1876 | 903 |
| 1877 | 907 |
| 1878 | 1,056 |
| 1879 | 1,165 |
| 1880 | 1,254 |
| 1881 | 993 |
| 1882 | 1,033 |
| 1883 | 850 |
| 1884 | 723 |

| Year. | Proportion of organic impurity present in Thames water as delivered in London. | | | | | |
|-------|--|---|---|---|---|-----|
| 1885 | - | - | - | - | - | 839 |
| 1886 | - | - | - | - | - | 756 |
| 1887 | - | - | - | - | - | 690 |
| 1888 | - | - | - | - | - | 724 |

From these figures it is evident that the Thames water supplied during the past year was, in respect of comparative freedom from organic impurity, only surpassed in two out of twenty-one years.

Of the water principally derived from the river Lea, that supplied by the New River Company contained, in every case, less organic matter than that of the East London Company, which generally ranked in this respect with the best of the Thames waters.

Taking, as before, the mean proportion of organic impurity contained in the Thames water delivered in 1868 as 1,000, I find that in the subsequent years 1888 included, the following proportions were present in the Lea water:—

| Year. | Proportion of organic impurity present in Lea water as delivered in London. | | | | | |
|-------|---|---|---|---|---|-------|
| 1868 | - | - | - | - | - | 484 |
| 1869 | - | - | - | - | - | 618 |
| 1870 | - | - | - | - | - | 550 |
| 1871 | - | - | - | - | - | 604 |
| 1872 | - | - | - | - | - | 819 |
| 1873 | - | - | - | - | - | 693 |
| 1874 | - | - | - | - | - | 583 |
| 1875 | - | - | - | - | - | 751 |
| 1876 | - | - | - | - | - | 562 |
| 1877 | - | - | - | - | - | 596 |
| 1878 | - | - | - | - | - | 747 |
| 1879 | - | - | - | - | - | 947 |
| 1880 | - | - | - | - | - | 1,013 |
| 1881 | - | - | - | - | - | 765 |
| 1882 | - | - | - | - | - | 711 |
| 1883 | - | - | - | - | - | 620 |
| 1884 | - | - | - | - | - | 500 |
| 1885 | - | - | - | - | - | 603 |
| 1886 | - | - | - | - | - | 500 |
| 1887 | - | - | - | - | - | 473 |
| 1888 | - | - | - | - | - | 509 |

Thus the general freedom from organic matter in the Lea water was conspicuous, and has very rarely been exceeded during the previous twenty years.

The organic matter present in the deep-well water supplied to London during the past twenty-one years is indicated, in reference to the same standard, as follows:—

| Year. | Proportion of organic impurity present in deep-well water as delivered in London. | | | | | |
|-------|---|---|---|---|---|-----|
| 1868 | - | - | - | - | - | 254 |
| 1869 | - | - | - | - | - | 312 |
| 1870 | - | - | - | - | - | 246 |
| 1871 | - | - | - | - | - | 150 |
| 1872 | - | - | - | - | - | 221 |

| Year. | | | | | | | Proportion of organic impurity present in deep-well water as delivered in London. |
|-------|---|---|---|---|---|---|---|
| 1873 | - | - | - | - | - | - | 250 |
| 1874 | - | - | - | - | - | - | 287 |
| 1875 | - | - | - | - | - | - | 250 |
| 1876 | - | - | - | - | - | - | 246 |
| 1877 | - | - | - | - | - | - | 243 |
| 1878 | - | - | - | - | - | - | 323 |
| 1879 | - | - | - | - | - | - | 387 |
| 1880 | - | - | - | - | - | - | 393 |
| 1881 | - | - | - | - | - | - | 405 |
| 1882 | - | - | - | - | - | - | 409 |
| 1883 | - | - | - | - | - | - | 321 |
| 1884 | - | - | - | - | - | - | 264 |
| 1885 | - | - | - | - | - | - | 200 |
| 1886 | - | - | - | - | - | - | 244 |
| 1887 | - | - | - | - | - | - | 249 |
| 1888 | - | - | - | - | - | - | 249 |

These figures show that the high degree of purity of this water has been fully maintained during the past year, the average proportion of organic matter which it contained being but little more than one-third of that present in the Thames and slightly more than one-half of that in the Lea water. It must be borne in mind also, that from a sanitary point of view, the superiority of this deep-well water is not fully represented by a comparison of the analytical figures, for the exhaustive filtration which the deep-well water undergoes in passing through a great depth of porous strata is far in excess of what can be effected by the sand filtration, highly valuable as it is, to which the river waters are subjected.

Table E. shows the proportional amount of organic elements (organic carbon and organic nitrogen) in each of the waters, the average amount of these elements contained in the Kent Company's water during the nine years ending December 1876 being taken as unity. This Table shows that the maximum, minimum, and average proportions of organic matter, as measured by this standard, present in the several waters, during 1888, were :—

| Sources. | | Maximum. | Minimum. | Average. |
|--------------|------------------|----------|----------|----------|
| Deep wells | { Kent | 0.8 | 0.3 | 0.6 |
| | { Colne Valley | 2.2 | 0.8 | 1.2 |
| | { Tottenham | 2.6 | 0.7 | 1.2 |
| River Lea | { New River | 3.7 | 0.6 | 1.4 |
| | { East London | 4.9 | 1.3 | 2.8 |
| River Thames | { Chelsea | 4.6 | 1.4 | 2.9 |
| | { West Middlesex | 6.0 | 1.6 | 3.2 |
| | { Southwark | 4.9 | 1.6 | 3.0 |
| | { Grand Junction | 4.9 | 1.3 | 2.8 |
| | { Lambeth | 4.8 | 1.6 | 2.9 |

Thus of the deep-well waters that supplied by the Kent Company contained least organic matter, whilst of the river waters, that supplied by the New River Company was the best in this respect, the East London Company's water ranking with the best of the Thames waters.

The five Thames waters closely resembled each other as regards the average proportion of organic matter which they contained. Nevertheless, the water sent out by the West Middlesex Company was conspicuous both by a higher maximum and a greater average of organic impurity.

The following Table exhibits the maximum amount of organic matter in the waters supplied from the Thames and Lea during the years 1868 to 1888 inclusive, the average of the samples from each source in the month of greatest impurity, being taken for comparison :—

MAXIMUM AMOUNT OF ORGANIC POLLUTION.

| THAMES. | | | LEA. | | |
|---------|--|---|-------|--|---|
| Year. | Elements of organic matter in parts per 100,000. | Months in which maximum pollution occurred. | Year. | Elements of organic matter in parts per 100,000. | Months in which maximum pollution occurred. |
| 1868 | ·45 | January. | 1868 | ·27 | February. |
| 1869 | ·60 | February. | 1869 | ·33 | February. |
| 1870 | ·42 | January. | 1870 | ·30 | January. |
| 1871 | ·52 | October. | 1871 | ·22 | February. |
| 1872 | ·48 | January & December. | 1872 | ·39 | December. |
| 1873 | ·46 | January. | 1873 | ·33 | January. |
| 1874 | ·37 | March. | 1874 | ·21 | March. |
| 1875 | ·49 | November. | 1875 | ·28 | November. |
| 1876 | ·44 | December. | 1876 | ·24 | March. |
| 1877 | ·40 | January. | 1877 | ·30 | January. |
| 1878 | ·36 | December. | 1878 | ·26 | June. |
| 1879 | ·38 | February. | 1879 | ·33 | July. |
| 1880 | ·42 | October. | 1880 | ·33 | February. |
| 1881 | ·34 | February. | 1881 | ·34 | February. |
| 1882 | ·37 | November. | 1882 | ·26 | December. |
| 1883 | ·32 | January. | 1883 | ·24 | December. |
| 1884 | ·27 | February. | 1884 | ·20 | March. |
| 1885 | ·35 | November. | 1885 | ·28 | December. |
| 1886 | ·30 | December. | 1886 | ·21 | February. |
| 1887 | ·34 | January. | 1887 | ·31 | January. |
| 1888 | ·35 | December. | 1888 | ·29 | December. |

From this Table it appears that the maximum amount of organic pollution in the Thames waters has been on the increase of late years, and the same is true also of the Lea-derived waters, except that it was slightly less this year than in 1887. In the water from both rivers the maximum pollution occurred in December.

The variations in the proportion of organic matter found in the several supplies is exhibited graphically in the accompanying diagrams (A. & B.), in which the maximum and minimum proportions of organic matter annually present in each of the three classes of waters since 1868 are recorded.

Tables F. and G., which record the proportions of ammonia and of nitrogen as nitrates and nitrites in the various waters, require no explanation.

In Table H. is given the amount of combined nitrogen, both mineral and organic found in each of the waters. The total amount of combined nitrogen is of importance, inasmuch as, after making a small correction for the combined nitrogen present in average rain-water, it forms the whole evidence of the nitrogenous organic matters which have gained access to the water in the past, as well as of those which are still present at the time the analysis is made. In river and surface water generally, this total combined nitrogen undergoes a very appreciable reduction during the warmer months of the year, in consequence of the vegetable life which then abounds in such water. On this account, therefore, the amount of total

MAXIMUM AND MINIMUM PROPORTION OF ORGANIC MATTER IN WATER FROM THAMES AND DEEP WELLS.

(*A)

Elements of
Organic
Matter in
Parts per
100,000

1868. 1869. 1870. 1871. 1872. 1873. 1874. 1875. 1876. 1877. 1878. 1879. 1880. 1881. 1882. 1883. 1884. 1885. 1886. 1887. 1888.

.700
.68
.66
.64
.62
.600
.58
.56
.54
.52
.500
.48
.46
.44
.42
.400
.38
.36
.34
.32
.300
.28
.26
.24
.22
.200
.18
.16
.14
.12
.100
.08
.06
.04
.02
.000

Thames

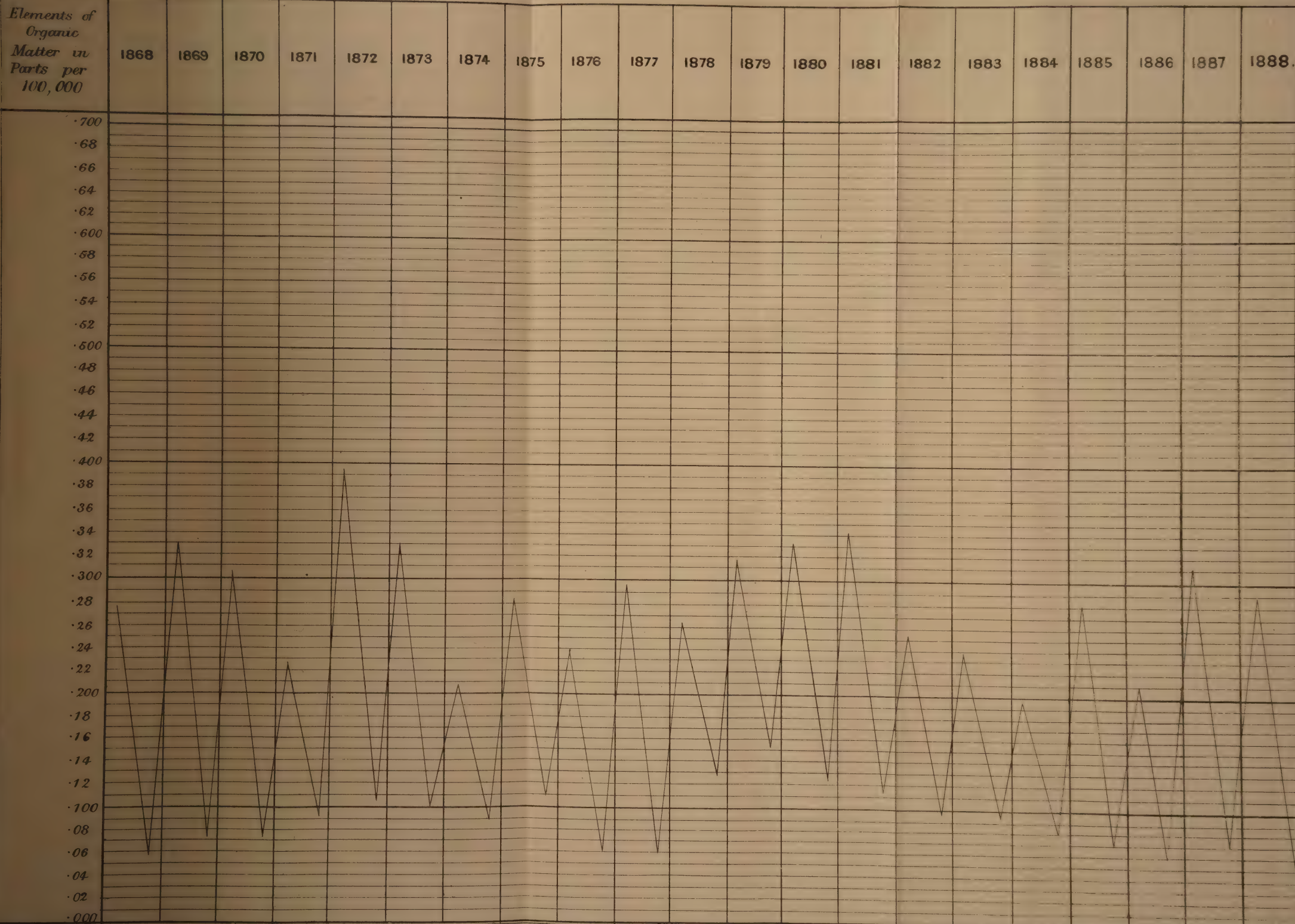
Thames

Deep Wells

Deep Wells

MAXIMUM & MINIMUM PROPORTION OF ORGANIC MATTER IN RIVER LEA WATER.

(* B)



combined nitrogen found in the river waters during the winter months can alone be regarded as bearing any relationship to the amount of nitrogenous matters which these waters have received.

The deep-well waters on the other hand are not subject to the influence of vegetable life, and the amount of total combined nitrogen is, therefore, equally indicative at all times of the year.

Thus, in the following Table, the average proportion of total combined nitrogen in the case of the Thames and Lea is given for the months of January, February, March, October, November, and December only, whilst in the case of the deep-wells it is calculated on the whole year:—

| Year. | Thames. | Lea. | Deep-Wells. |
|-------|---------|------|-------------|
| 1879 | ·281 | ·310 | ·317 |
| 1880 | ·276 | ·284 | ·294 |
| 1881 | ·260 | ·294 | ·306 |
| 1882 | ·258 | ·304 | ·294 |
| 1883 | ·259 | ·329 | ·353 |
| 1884 | ·244 | ·273 | ·301 |
| 1885 | ·233 | ·277 | ·292 |
| 1886 | ·319 | ·336 | ·355 |
| 1887 | ·307 | ·352 | ·365 |
| 1888 | ·304 | ·322 | ·358 |

From the above Table it is seen that, as compared with last year, there is a slight diminution in the proportion of total combined nitrogen present in each of the three classes of water. On the whole, however, there has been a marked increase during the last three years.

Table I. shows the amount of chlorine present in each of the waters and indicates that on no occasion has brackish or tidal water gained access to the Company's reservoirs. The increase of chlorine in the river waters, upon which I commented in my last annual report, has been maintained during the past year.

Table K. gives the hardness of the various waters. The term "hardness" is used to denote the proportion of carbonate of lime, or its equivalent of other soap-destroying substances, present in 100,000 parts of the water. The variations in hardness for the several descriptions of water during recent years are given in the following Table:—

| Year. | Thames. | Lea. | Kent. | Colne Valley. | Tottenham. |
|-------|---------|-------|-------|---------------|------------|
| 1881 | 19°·8 | 20°·8 | 28°·3 | 6°·2 | 24°·1 |
| 1882 | 20°·7 | 21°·1 | 28°·5 | 5°·5 | 25°·4 |
| 1883 | 19°·9 | 20°·6 | 28°·0 | 7°·1 | 22°·5 |
| 1884 | 19°·4 | 20°·1 | 28°·6 | 5°·2 | 19°·7 |
| 1885 | 18°·7 | 20°·0 | 27°·9 | 4°·8 | 20°·4 |
| 1886 | 19°·2 | 20°·3 | 29°·4 | 4°·5 | 21°·3 |
| 1887 | 19°·3 | 20°·8 | 29°·9 | 5°·7 | 20°·5 |
| 1888 | 20°·0 | 22°·0 | 30°·2 | 7°·5 | 22°·5 |

None of the waters supplied to the Metropolis are of such excessive hardness as to influence their fitness for drinking; but, with the exception of that supplied by the Colne Valley Company, the hardness is sufficiently great to materially diminish the value of the waters for washing, steam, and industrial purposes generally. The hardness of the metropolitan water supply is almost entirely due to the presence of bi-carbonate of lime in solution; this bi-carbonate of lime can be readily removed by treating the water with lime, as is so successfully done by the Colne Valley Company. Thus the water pumped from the chalk by the Colne Valley Company is initially of about the same degree of hardness as the Kent Company's supply,

but, by treatment with lime before delivery, its hardness is reduced to from one-fourth to one-fifth of its original amount. The hardness of the river supplies is similarly reducible. This mode of softening is by far the most economical, for it entails only about one-eightieth of the expense which devolves upon the private consumer in the shape of additional soap required for washing purposes.

Lastly, Table L. records the averages, for the past year, of each determination referred to above and thus gives a general survey of the thermal and chemical characters of the water delivered by each Company during the past year.

In the following Table I have recorded the results of my observations respecting the freedom from turbidity or otherwise of the various waters, and for the purpose of comparison, the results of my first observations in 1868 are also included :—

| COMPANIES OR LOCAL AUTHORITIES. | Number of occasions when clear and transparent. | | Number of occasions when slightly turbid. | | Number of occasions when turbid. | | Number of occasions when very turbid. | |
|--|--|-------|---|-------|--|-------|---|-------|
| | 1868. | 1888. | 1868. | 1888. | 1868. | 1888. | 1868. | 1888. |
| THAMES. | | | | | | | | |
| Chelsea - - - - | 7 | 12 | 2 | 0 | 1 | 0 | 2 | 0 |
| West Middlesex - - - - | 12 | 12 | 0 | 0 | 0 | 0 | 0 | 0 |
| Southwark - - - - | 1 | 12 | 5 | 0 | 4 | 0 | 2 | 0 |
| Grand Junction - - - - | 9 | 12 | 2 | 0 | 1 | 0 | 0 | 0 |
| Lambeth - - - - | 6 | 12 | 1 | 0 | 2 | 0 | 3 | 0 |
| LEA. | | | | | | | | |
| New River - - - - | 10 | 12 | 2 | 0 | 0 | 0 | 0 | 0 |
| East London - - - - | 3 | 12 | 8 | 0 | 1 | 0 | 0 | 0 |
| DEEP WELLS. | | | | | | | | |
| Kent - - - - | 8 | 12 | 3 | 0 | 1 | 0 | 0 | 0 |
| Colne Valley - - - - | - | 12 | - | 0 | - | 0 | - | 0 |
| Tottenham Local Board of Health - - - - | - | 11 | - | 1 | - | 0 | - | 0 |

From this Table it will be seen that every sample of river water was clear and bright when drawn from the mains. This uniform freedom from the slightest turbidity on the part of the river supplies reflects great credit upon the Companies dealing with this raw material, and the contrast between the appearance of these river supplies in 1868, and that in 1888 is very striking and affords the strongest evidence of the improvements which have been made in the methods of purification since the attention of the companies was prominently directed in these reports to the defects in their storage and filtration. Of the samples of deep-well water, all those taken from the supplies of the Kent and Colne Valley Companies were clear and bright without having undergone any artificial filtration, but one sample of the Tottenham supply was slightly turbid.

I am, &c.

E. FRANKLAND.

The Registrar General, &c., &c.
Somerset House, W.C.

TABLE A.

TEMPERATURE (in Centigrade degrees) of the METROPOLITAN WATERS, as delivered from the different Companies' Mains.

| COMPANIES OR LOCAL AUTHORITIES. | | 1888. | | | | | | | | | | | | |
|---------------------------------------|-----------------------------|-------|------|--------|--------|------|-------|-------|------|-------|------|------|------|-------|
| | | Jan. | Feb. | March. | April. | May. | June. | July. | Aug. | Sept. | Oct. | Nov. | Dec. | Mean. |
| Inner Circle. | THAMES. | ° | ° | ° | ° | ° | ° | ° | ° | ° | ° | ° | ° | ° |
| | Chelsea - - - | 6'0 | 4'4 | 5'3 | 9'5 | 14'3 | 16'5 | 16'3 | 17'0 | 15'6 | 10'8 | 13'0 | 12'5 | 11'8 |
| | West Middlesex - - | 6'7 | 4'0 | 5'7 | 10'5 | 15'3 | 18'5 | 17'4 | 17'0 | 16'4 | 11'3 | 11'5 | 9'8 | 12'0 |
| | Southwark - - - | 6'8 | 4'0 | 5'5 | 9'7 | 15'0 | 17'5 | 16'5 | 16'8 | 15'5 | 11'0 | 11'6 | 9'9 | 11'7 |
| | Grand Junction - - | 6'0 | 3'0 | 5'0 | 10'0 | 14'5 | 17'5 | 16'5 | 16'5 | 15'4 | 10'0 | 10'5 | 9'0 | 11'2 |
| | Lambeth - - - | 5'8 | 4'0 | 5'4 | 10'3 | 15'0 | 17'0 | 16'3 | 17'0 | 15'4 | 10'3 | 11'3 | 10'2 | 11'5 |
| Inner Circle. | LEA. | | | | | | | | | | | | | |
| | New River - - - | 6'4 | 3'5 | 5'2 | 10'3 | 14'5 | 17'0 | 16'1 | 16'7 | 15'5 | 10'6 | 11'0 | 9'5 | 11'4 |
| | East London - - - | 6'3 | 3'2 | 5'3 | 9'5 | 13'5 | 16'5 | 16'5 | 16'6 | 16'0 | 10'5 | 10'5 | 8'8 | 11'1 |
| Outer Circle. | DEEP WELLS. | | | | | | | | | | | | | |
| | Kent - - - | 12'4 | 12'0 | 12'2 | 12'3 | 12'5 | 13'0 | 12'7 | 13'5 | 13'0 | 13'0 | 12'8 | 12'5 | 12'7 |
| | Colne Valley - - - | — | — | — | — | — | — | — | — | — | — | — | — | — |
| | Tottenham Local Board - - - | — | — | — | — | — | — | — | — | — | — | — | — | — |

TABLE B.

WEIGHT OF SOLID MATTERS in 100,000 parts of the WATERS.

| COMPANIES OR LOCAL AUTHORITIES. | | 1888. | | | | | | | | | | | | |
|---------------------------------------|-----------------------------|-------|-------|--------|--------|-------|-------|-------|-------|-------|-------|-------|-------|-------|
| | | Jan. | Feb. | March. | April. | May. | June. | July. | Aug. | Sept. | Oct. | Nov. | Dec. | Mean |
| Inner Circle. | THAMES. | | | | | | | | | | | | | |
| | Chelsea - - - | 30°24 | 28°50 | 29°48 | 28°94 | 25°66 | 24°14 | 24°62 | 27°28 | 26°00 | 25°76 | 28°74 | 30°42 | 27°48 |
| | West Middlesex - - | 29°84 | 28°80 | 29°44 | 28°34 | 25°50 | 25°40 | 25°60 | 27°30 | 26°30 | 26°90 | 31°00 | 31°00 | 27°95 |
| | Southwark - - - | 30°40 | 29°96 | 30°92 | 29°30 | 25°16 | 25°40 | 28°80 | 27°86 | 27°70 | 27°40 | 31°90 | 31°46 | 28°86 |
| | Grand Junction - - | 30°30 | 29°04 | 30°30 | 27°24 | 24°64 | 24°76 | 26°70 | 26°50 | 26°52 | 27°44 | 31°90 | 32°80 | 28°18 |
| | Lambeth - - - | 30°46 | 30°26 | 30°50 | 28°84 | 26°90 | 26°60 | 27°44 | 27°70 | 27°40 | 28°64 | 32°70 | 32°24 | 29°14 |
| Outer Circle. | LEA. | | | | | | | | | | | | | |
| | New River - - - | 31°36 | 29°10 | 30°80 | 27°66 | 26°30 | 27°50 | 29°10 | 27°80 | 29°60 | 29°50 | 33°40 | 32°50 | 29°55 |
| | East London - - - | 37°00 | 35°26 | 31°64 | 32°90 | 29°60 | 29°20 | 29°86 | 30°30 | 31°04 | 31°44 | 36°90 | 38°74 | 32°82 |
| | DEEP WELLS. | | | | | | | | | | | | | |
| | Kent - - - | 41°46 | 42°10 | 41°82 | 41°84 | 42°90 | 43°06 | 42°26 | 35°10 | 41°80 | 41°64 | 43°70 | 33°54 | 40°89 |
| | Colne Valley - - - | 16°66 | 15°42 | 16°60 | 16°90 | 16°96 | 15°50 | 16°00 | 15°56 | 19°10 | 15°88 | 19°70 | 19°30 | 16°97 |
| Outer Circle. | Tottenham Local Board - - - | 42°40 | 42°40 | 39°64 | 40°00 | 38°70 | 38°12 | 38°40 | 38°40 | 39°30 | 40°04 | 39°34 | 40°20 | 39°75 |

TABLE C.

ORGANIC CARBON in 100,000 parts of the WATERS.

| COMPANIES OR LOCAL AUTHORITIES. | | 1888. | | | | | | | | | | | | |
|---------------------------------------|-----------------------------|-------|------|--------|--------|------|-------|-------|------|-------|------|------|------|-------|
| | | Jan. | Feb. | March. | April. | May. | June. | July. | Aug. | Sept. | Oct. | Nov. | Dec. | Mean. |
| Inner Circle. | THAMES. | | | | | | | | | | | | | |
| | Chelsea - - - | ·169 | ·130 | ·216 | ·165 | ·126 | ·086 | ·138 | ·136 | ·004 | ·075 | ·201 | ·236 | ·145 |
| | West Middlesex - - | ·137 | ·170 | ·271 | ·147 | ·115 | ·085 | ·193 | ·088 | ·076 | ·080 | ·235 | ·238 | ·157 |
| | Southwark - - - | ·168 | ·152 | ·211 | ·161 | ·130 | ·084 | ·109 | ·122 | ·110 | ·073 | ·202 | ·230 | ·146 |
| | Grand Junction - - | ·138 | ·161 | ·237 | ·144 | ·085 | ·064 | ·192 | ·000 | ·063 | ·032 | ·176 | ·227 | ·138 |
| | Lambeth - - - | ·129 | ·145 | ·223 | ·160 | ·085 | ·100 | ·141 | ·120 | ·080 | ·088 | ·232 | ·242 | ·145 |
| Inner Circle. | LEA. | | | | | | | | | | | | | |
| | New River - - - | ·039 | ·056 | ·128 | ·036 | ·026 | ·060 | ·043 | ·041 | ·040 | ·039 | ·103 | ·185 | ·066 |
| | East London - - - | ·127 | ·156 | ·133 | ·162 | ·086 | ·119 | ·108 | ·060 | ·117 | ·094 | ·219 | ·219 | ·133 |
| | DEEP WELLS. | | | | | | | | | | | | | |
| | Kent - - - | ·032 | ·027 | ·025 | ·026 | ·012 | ·024 | ·033 | ·031 | ·030 | ·037 | ·036 | ·024 | ·028 |
| | Colne Valley - - - | ·058 | ·054 | ·035 | ·035 | ·073 | ·108 | ·032 | ·075 | ·039 | ·039 | ·062 | ·077 | ·050 |
| Outer Circle. | Tottenham Local Board - - - | ·130 | ·069 | ·077 | ·035 | ·031 | ·058 | ·038 | ·052 | ·062 | ·036 | ·029 | ·067 | ·057 |

TABLE D.

ORGANIC NITROGEN in 100,000 parts of the WATERS.

| COMPANIES OR LOCAL AUTHORITIES. | | 1888. | | | | | | | | | | | | Mean. |
|---------------------------------------|-----------------------------|-------|------|--------|--------|------|-------|-------|------|-------|------|------|------|-------|
| | | Jan. | Feb. | March. | April. | May. | June. | July. | Aug. | Sept. | Oct. | Nov. | Dec. | |
| Inner Circle. | THAMES. | | | | | | | | | | | | | |
| | Chelsea - - - | *020 | *020 | *028 | *041 | *023 | *021 | *027 | *031 | *017 | *030 | *030 | *036 | *028 |
| | West Middlesex - - | *021 | *035 | *051 | *021 | *018 | *019 | *029 | *018 | *016 | *040 | *039 | *065 | *031 |
| | Southwark - - - | *020 | *025 | *043 | *037 | *026 | *017 | *023 | *023 | *022 | *022 | *038 | *061 | *029 |
| | Grand Junction - - | *016 | *026 | *044 | *026 | *014 | *018 | *038 | *013 | *014 | *028 | *034 | *065 | *028 |
| | Lambeth - - - | *015 | *026 | *039 | *033 | *017 | *018 | *023 | *018 | *017 | *022 | *043 | *042 | *026 |
| Outer Circle. | LEA. | | | | | | | | | | | | | |
| | New River - - - | *012 | *014 | *025 | *018 | *008 | *013 | *012 | *015 | *013 | *013 | *030 | *031 | *017 |
| | East London - - - | *017 | *030 | *025 | *036 | *021 | *022 | *019 | *016 | *022 | *030 | *038 | *070 | *029 |
| | DEEP WELLS. | | | | | | | | | | | | | |
| | Kent - - - | *010 | *011 | *007 | *011 | *006 | *011 | *008 | *009 | *003 | *012 | *012 | *006 | *009 |
| | Colne Valley - - - | *010 | *011 | *010 | *013 | *013 | *019 | *014 | *014 | *016 | *011 | *023 | *018 | *014 |
| | Tottenham Local Board - - - | *023 | *024 | *018 | *014 | *014 | *021 | *010 | *010 | *021 | *013 | *014 | *025 | *017 |

TABLE E.

PROPORTIONAL AMOUNT of ORGANIC ELEMENTS, that in the KENT COMPANY'S WATER during the Nine Years ending December 1876 being taken as 1.

| COMPANIES OR LOCAL AUTHORITIES. | | 1888. | | | | | | | | | | | | Mean. |
|---------------------------------------|-----------------------------|-------|------|--------|--------|------|-------|-------|------|-------|------|------|------|-------|
| | | Jan. | Feb. | March. | April. | May. | June. | July. | Aug. | Sept. | Oct. | Nov. | Dec. | |
| Inner Circle. | THAMES. | | | | | | | | | | | | | |
| | Chelsea - - - | 3.2 | 2.7 | 4.1 | 3.5 | 2.5 | 1.8 | 2.8 | 2.8 | 1.4 | 1.8 | 3.9 | 4.6 | 2.9 |
| | West Middlesex - - | 2.7 | 3.5 | 5.5 | 2.8 | 2.3 | 1.8 | 3.7 | 1.8 | 1.6 | 2.0 | 4.6 | 6.0 | 3.2 |
| | Southwark - - - | 3.2 | 3.0 | 4.3 | 3.4 | 2.6 | 1.7 | 2.2 | 2.4 | 2.2 | 1.6 | 4.1 | 4.9 | 3.0 |
| | Grand Junction - - | 2.6 | 3.2 | 4.8 | 2.9 | 1.7 | 1.4 | 3.9 | 1.8 | 1.3 | 1.9 | 3.6 | 4.9 | 2.8 |
| | Lambeth - - - | 2.4 | 2.9 | 4.4 | 3.3 | 1.7 | 2.0 | 2.8 | 2.3 | 1.6 | 1.9 | 4.7 | 4.8 | 2.9 |
| Outer Circle. | LEA. | | | | | | | | | | | | | |
| | New River - - - | 0.9 | 1.2 | 2.6 | 0.9 | 0.6 | 1.2 | 0.9 | 0.9 | 0.9 | 0.9 | 2.3 | 3.7 | 1.4 |
| | East London - - - | 2.4 | 3.2 | 2.7 | 3.4 | 1.8 | 2.4 | 2.1 | 1.3 | 2.4 | 2.1 | 4.4 | 4.9 | 2.8 |
| | DEEP WELLS. | | | | | | | | | | | | | |
| | Kent - - - | 0.7 | 0.6 | 0.5 | 0.5 | 0.3 | 0.6 | 0.7 | 0.7 | 0.6 | 0.8 | 0.8 | 0.5 | 0.6 |
| | Colne Valley - - - | 1.2 | 1.1 | 0.8 | 0.8 | 1.5 | 2.2 | 0.8 | 1.5 | 1.3 | 0.8 | 1.4 | 1.6 | 1.2 |
| | Tottenham Local Board - - - | 2.6 | 1.6 | 1.6 | 0.8 | 0.8 | 1.3 | 0.8 | 1.1 | 1.4 | 0.8 | 0.7 | 1.6 | 1.2 |

TABLE F.

AMMONIA in 100,000 parts of the WATERS.

| COMPANIES OR LOCAL AUTHORITIES. | | 1888. | | | | | | | | | | | | Mean. |
|---------------------------------------|-----------------------------|-------|------|--------|--------|------|-------|-------|------|-------|------|------|------|-------|
| | | Jan. | Feb. | March. | April. | May. | June. | July. | Aug. | Sept. | Oct. | Nov. | Dec. | |
| Inner Circle. | THAMES. | | | | | | | | | | | | | |
| | Chelsea - - - | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| | West Middlesex - - | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| | Southwark - - - | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| | Grand Junction - - | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| | Lambeth - - - | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| Outer Circle. | LEA. | | | | | | | | | | | | | |
| | New River - - - | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| | East London - - - | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| | DEEP WELLS. | | | | | | | | | | | | | |
| | Kent - - - | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| | Colne Valley - - - | 0 | *005 | 0 | 0 | 0 | *009 | *005 | 0 | *020 | 0 | 0 | 0 | *003 |
| | Tottenham Local Board - - - | *020 | *040 | *040 | *060 | *040 | *040 | *050 | *060 | *036 | *040 | *070 | *085 | *048 |

TABLE G.

NITROGEN as NITRATES and NITRITES in 100,000 parts of the WATERS.

| COMPANIES OR LOCAL AUTHORITIES. | | 1888. | | | | | | | | | | | | |
|---------------------------------------|---------------------------|-------|------|--------|--------|------|-------|-------|------|-------|------|------|------|-------|
| | | Jan. | Feb. | March. | April. | May. | June. | July. | Aug. | Sept. | Oct. | Nov. | Dec. | Mean. |
| Inner Circle. | THAMES. | | | | | | | | | | | | | |
| | Chelsea - - | ·277 | ·235 | ·280 | ·265 | ·194 | ·163 | ·159 | ·186 | ·175 | ·189 | ·200 | ·265 | ·215 |
| | West Middlesex - - | ·283 | ·247 | ·285 | ·246 | ·188 | ·168 | ·182 | ·181 | ·179 | ·193 | ·265 | ·270 | ·224 |
| | Southwark - - | ·276 | ·238 | ·316 | ·228 | ·181 | ·154 | ·179 | ·183 | ·202 | ·233 | ·276 | ·277 | ·220 |
| | Grand Junction - - | ·291 | ·256 | ·294 | ·219 | ·177 | ·169 | ·188 | ·214 | ·225 | ·212 | ·281 | ·294 | ·285 |
| | Lambeth - - | ·312 | ·280 | ·340 | ·259 | ·217 | ·198 | ·190 | ·224 | ·241 | ·323 | ·284 | ·317 | ·265 |
| Outer Circle. | LEA. | | | | | | | | | | | | | |
| | New River - - | ·319 | ·300 | ·332 | ·224 | ·212 | ·204 | ·255 | ·212 | ·229 | ·252 | ·289 | ·322 | ·262 |
| | East London - - | ·339 | ·277 | ·302 | ·297 | ·281 | ·310 | ·294 | ·253 | ·185 | ·213 | ·275 | ·311 | ·278 |
| | DEEP WELLS. | | | | | | | | | | | | | |
| | Kent - - | ·474 | ·472 | ·401 | ·428 | ·449 | ·401 | ·478 | ·401 | ·519 | ·474 | ·563 | ·491 | ·470 |
| | Colne Valley - - | ·379 | ·397 | ·419 | ·454 | ·432 | ·372 | ·385 | ·447 | ·442 | ·391 | ·469 | ·310 | ·408 |
| | Tottenham Local Board - - | ·314 | ·286 | ·384 | ·011 | ·075 | ·075 | ·037 | ·061 | trace | ·061 | ·059 | ·010 | ·114 |

TABLE H.

TOTAL combined NITROGEN in 100,000 parts of the WATERS.

| COMPANIES OR LOCAL AUTHORITIES. | | 1888. | | | | | | | | | | | | |
|---------------------------------------|--------------------|-------|------|--------|--------|------|-------|-------|------|-------|------|------|------|-------|
| | | Jan. | Feb. | March. | April. | May. | June. | July. | Aug. | Sept. | Oct. | Nov. | Dec. | Mean. |
| Inner Circle. | THAMES. | | | | | | | | | | | | | |
| | Chelsen - - | *297 | *264 | *308 | *306 | *217 | *184 | *186 | *217 | *192 | *219 | *230 | *301 | *243 |
| | West Middlesex - - | *304 | *282 | *336 | *267 | *206 | *187 | *211 | *199 | *195 | *233 | *304 | *335 | *255 |
| | Southwark - - | *296 | *303 | *359 | *265 | *207 | *171 | *202 | *203 | *224 | *255 | *314 | *338 | *258 |
| | Grand Junction - - | *307 | *282 | *338 | *245 | *191 | *187 | *226 | *230 | *237 | *240 | *315 | *359 | *283 |
| | Lambeth - - | *327 | *306 | *379 | *292 | *234 | *216 | *213 | *242 | *268 | *345 | *327 | *350 | *291 |
| | LEA. | | | | | | | | | | | | | |
| | New River - - | *331 | *314 | *357 | *242 | *220 | *217 | *267 | *227 | *242 | *265 | *319 | *353 | *279 |
| Outer Circle. | East London - - | *356 | *307 | *327 | *333 | *302 | *332 | *313 | *269 | *207 | *243 | *313 | *381 | *307 |
| | DEEP WELLS. | | | | | | | | | | | | | |
| | Kent - - | *484 | *483 | *408 | *439 | *455 | *412 | *486 | *500 | *527 | *486 | *575 | *497 | *479 |
| | Colne Valley - - | *389 | *412 | *429 | *467 | *445 | *398 | *403 | *461 | *475 | *402 | *492 | *328 | *425 |
| | Tottenham Local | | | | | | | | | | | | | |
| | Board - - | *353 | *343 | *435 | *074 | *122 | *129 | *088 | *120 | *050 | *109 | *131 | *105 | *171 |

TABLE I.

CHLORINE in 100,000 parts of the WATERS.

[illegible]

TABLE K.

DEGREES of HARDNESS (1 deg. = 1 part of carbonate of lime, or its equivalent,) in 100,000 parts of the WATERS.

| COMPANIES OR LOCAL AUTHORITIES. | | 1888. | | | | | | | | | | | | |
|---------------------------------------|---------------------------------|-------|------|--------|--------|------|-------|-------|------|-------|------|------|------|-------|
| | | Jan. | Feb. | March. | April. | May. | June. | July. | Aug. | Sept. | Oct. | Nov. | Dec. | Mean. |
| Inner Circle. | THAMES. | | | | | | | | | | | | | |
| | Chelsea - - - | 20·3 | 19·7 | 19·7 | 19·4 | 17·7 | 17·1 | 18·3 | 19·1 | 18·9 | 19·1 | 19·7 | 21·2 | 19·2 |
| | West Middlesex - - | 20·0 | 19·7 | 20·3 | 18·9 | 18·0 | 18·3 | 18·6 | 19·1 | 19·7 | 20·0 | 22·1 | 21·5 | 19·7 |
| | Southwark - - - | 20·6 | 20·3 | 20·6 | 19·7 | 18·0 | 18·6 | 20·6 | 20·6 | 20·9 | 20·6 | 22·7 | 22·7 | 20·5 |
| | Grand Junction - - | 20·9 | 20·0 | 20·0 | 18·9 | 18·0 | 18·0 | 19·4 | 20·0 | 20·6 | 20·9 | 23·0 | 23·0 | 20·2 |
| | Lambeth - - - | 21·2 | 20·6 | 20·3 | 19·4 | 18·6 | 19·4 | 19·4 | 20·9 | 21·2 | 21·5 | 22·7 | 22·4 | 20·6 |
| Outer Circle. | LEA. | | | | | | | | | | | | | |
| | New River - - - | 23·0 | 20·3 | 20·6 | 18·9 | 19·1 | 19·1 | 21·2 | 21·2 | 21·5 | 22·7 | 21·8 | 23·3 | 21·1 |
| | East London - - - | 27·8 | 23·3 | 21·2 | 20·9 | 20·3 | 20·0 | 21·8 | 22·4 | 22·7 | 23·6 | 25·1 | 26·8 | 23·0 |
| Outer Circle. | DEEP WELLS. | | | | | | | | | | | | | |
| | Kent - - - - - | 32·0 | 31·4 | 29·2 | 29·7 | 29·4 | 28·1 | 32·6 | 28·7 | 31·4 | 31·5 | 33·2 | 25·7 | 30·2 |
| | Colne Valley - - - | 7·0 | 6·7 | 6·7 | 6·9 | 7·4 | 6·4 | 7·4 | 6·6 | 9·9 | 6·7 | 9·6 | 9·0 | 7·5 |
| | Tottenham Local Board - - - - - | 23·6 | 22·1 | 22·7 | 22·1 | 20·6 | 21·5 | 22·1 | 22·1 | 23·6 | 23·0 | 23·6 | 23·0 | 22·5 |

TABLE L.

AVERAGES FOR 1888.

The numbers in the Table relate to 100,000 parts of each Water.

| COMPANIES OR LOCAL AUTHORITIES. | | Temperature in Centigrade Degrees. | Total Solid Matters. | Organic Carbon. | Organic Nitrogen. | Ammonia. | Nitrogen, as Nitrates and Nitrites. | Total combined Nitrogen. | Chlorine. | Total Hardness. | Proportional Amount of Organic Elements that in the Kent Company's Water during the 8 years ending Dec. 1876 being taken as 1. |
|------------------------------------|--------------------|------------------------------------|----------------------|-----------------|-------------------|----------|-------------------------------------|--------------------------|-----------|-----------------|--|
| Inner Circle. | THAMES. | ° | | | | | | | | | |
| | Chelsea | 11·8 | 27·48 | ·145 | ·028 | 0 | ·215 | ·243 | 1·8 | 19·2 | 2·9 |
| | West Middlesex . . | 12·0 | 27·05 | ·157 | ·031 | 0 | ·224 | ·255 | 1·8 | 19·7 | 2·2 |
| | Southwark | 11·7 | 28·86 | ·146 | ·029 | 0 | ·229 | ·258 | 1·8 | 20·5 | 2·0 |
| | Grand Junction . . | 11·2 | 28·13 | ·138 | ·028 | 0 | ·235 | ·263 | 1·8 | 20·2 | 2·8 |
| Outer Circle. | Lambeth | 11·3 | 29·14 | ·145 | ·026 | 0 | ·265 | ·291 | 1·8 | 20·6 | 2·9 |
| | LEA. | | | | | | | | | | |
| | New River | 11·4 | 29·55 | ·066 | ·017 | 0 | ·262 | ·270 | 1·9 | 21·1 | 1·4 |
| | East London . . . | 11·1 | 32·82 | ·133 | ·029 | 0 | ·278 | ·307 | 2·0 | 23·0 | 2·8 |
| | DEEP WELLS. | | | | | | | | | | |
| Outer Circle. | Kent | 12·7 | 40·89 | ·028 | ·000 | 0 | ·470 | ·470 | 2·4 | 30·2 | 0·6 |
| | Colne Valley . . . | — | 16·97 | ·050 | ·014 | ·003 | ·408 | ·425 | 2·0 | 7·5 | 1·2 |
| | Tottenham Local . | — | 39·75 | ·057 | ·017 | ·048 | ·114 | ·171 | 2·7 | 22·5 | 1·2 |
| | Board | | | | | | | | | | |
| | | | | | | | | | | | |

NOTE.—The numbers in these tables may be converted into grains per imperial gallon, by multiplying them by 7, and then moving the decimal point one place to the left.



FIRES IN LONDON DURING THE YEAR 1888.

Captain Eyre M. Shaw, Chief Officer of the Metropolitan Fire Brigade, reported to the Metropolitan Board of Works that the number of fires attended during 1888 was 1988, being fewer by 375 than the number in the preceding year, and 50 below the average in the ten years 1878-87. According to this report the lives of 178 persons were seriously endangered, and 48 of these were lost. The numbers of lives lost by fires in London in the four preceding years were 42, 47, 49, and 55 respectively.

The staff of the Metropolitan Fire Brigade at the end of the year was distributed at 55 land engine, 4 floating, 27 hose cart, and 127 escape stations. The number of fire engines at these stations was 150, showing a decrease of 15 on the number in the previous year; 7 were floating steam engines, 48 land steam engines, and 95 manual engines. The strength of the brigade was 591 of all ranks, including the chief officer and the superintendents, corresponding with the strength in the previous year. The cases of injury occurring in the brigade during the year were 96, against 142, 117, 90, and 91, in the four previous years.

Number of Fires and of False Alarms attended during the Eleven Years 1878-88, and in each Month of 1888.

| YEARS AND MONTHS. | | | | TOTAL CALLS. | FALSE ALARMS AND CHIMNEYS. | FIRES. | | | | |
|-------------------|--------------|--|--|-----------------|-------------------------------------|----------|---------|--------|---------------|---------|
| | | | | | | Serious. | Slight. | Total. | Per-centages. | |
| | | | | | | | | | Serious. | Slight. |
| 1878 - - - | | | | 1881 | 222 | 170 | 1489 | 1659 | 10.2 | 89.8 |
| 1879 - - - | | | | 1949 | 231 | 159 | 1559 | 1718 | 9.3 | 90.7 |
| 1880 - - - | | | | 2194 | 323 | 162 | 1709 | 1871 | 8.7 | 91.3 |
| 1881 - - - | | | | 2376 | 385 | 167 | 1824 | 1991 | 8.4 | 91.6 |
| 1882 - - - | | | | 2341 | 415 | 164 | 1762 | 1926 | 8.5 | 91.5 |
| 1883 - - - | | | | 2630 | 486 | 184 | 1960 | 2144 | 8.6 | 91.4 |
| 1884 - - - | | | | 2806 | 517 | 194 | 2095 | 2289 | 8.5 | 91.5 |
| 1885 - - - | | | | 2851 | 581 | 160 | 2110 | 2270 | 7.0 | 93.0 |
| 1886 - - - | | | | 2853 | 704 | 151 | 1998 | 2149 | 7.1 | 92.9 |
| 1887 - - - | | | | 3059 | 696 | 175 | 2188 | 2363 | 7.4 | 92.6 |
| 1888 - - - | | | | 2693 | 705 | 121 | 1867 | 1988 | 6.1 | 93.9 |
| 1888. | January - - | | | 271 | 61 | 18 | 192 | 210 | 8.6 | 91.4 |
| | February - - | | | 214 | 49 | 14 | 151 | 165 | 8.5 | 91.5 |
| | March - - - | | | 215 | 53 | 7 | 155 | 163 | 4.3 | 95.7 |
| | April - - - | | | 217 | 70 | 6 | 141 | 147 | 4.1 | 95.9 |
| | May - - - | | | 225 | 67 | 6 | 152 | 158 | 3.8 | 96.2 |
| | June - - - | | | 218 | 52 | 9 | 157 | 166 | 5.4 | 94.6 |
| | July - - - | | | 186 | 47 | 7 | 132 | 139 | 5.0 | 95.0 |
| | August - - - | | | 206 | 66 | 8 | 132 | 140 | 5.7 | 94.3 |
| | September - | | | 215 | 51 | 5 | 159 | 164 | 3.0 | 97.0 |
| | October - - | | | 233 | 52 | 16 | 165 | 181 | 8.8 | 91.2 |
| | November - | | | 228 | 66 | 8 | 154 | 162 | 4.9 | 95.1 |
| | December - | | | 265 | 71 | 17 | 177 | 194 | 8.8 | 91.2 |

